Table 1. Target levels of Fe XVII and their threshold energies (in Ryd).

Index	Configuration	Level	Expt.[a]	GRASP[b]	GRASP[c]
1	$2s^2 2p^6$	$^1S_0$	00.0000	00.0000	0.0000
2	$2s^2 2p^5 3s$	$^3P^o_2$	53.2966	53.1622	53.1706
3	.....	$^1P^o_1$	53.4367	53.3059	53.3143
4	.....	$^3P^o_0$	54.2269	54.0917	54.0986
5	.....	$^3P^o_1$	54.3140	54.1813	54.1897
6	$2s^2 2p^5 3p$	$^3S_1$	55.5218	55.3881	55.3951
7	.....	$^3D_2$	55.7788	55.6551	55.6636
8	.....	$^3D_3$	55.8974	55.7720	55.7804
9	.....	$^1P_1$	55.9804	55.8596	55.8682
10	.....	$^3P_2$	56.1137	55.9902	55.9989
11	.....	$^3P_0$	56.5155	56.4021	56.4098
12	.....	$^3D_1$	56.6672	56.5441	56.5526
13	.....	$^3P_1$	56.9061	56.7801	56.7885
14	.....	$^1D_2$	56.9337	56.8086	56.8171
15	.....	$^1S_0$	57.8894	57.9529	57.9419
16	$2s^2 2p^5 3d$	$^3P^o_0$	58.8983	58.7676	58.7755
17	.....	$^3P^o_1$	58.9818	58.8392	58.8470
18	.....	$^3P^o_2$	59.0977	58.9758	58.9838
19	.....	$^3F^o_4$	59.1042	58.9842	58.9913
20	.....	$^3F^o_3$	59.1612	59.0447	59.0521
21	.....	$^1D^o_2$	59.2876	59.1739	59.1821
22	.....	$^3D^o_3$	59.3666	59.2541	59.2625
23	.....	$^3D^o_1$	59.7080	59.6062	59.6131
24	.....	$^3F^o_2$	60.0877	59.9701	59.9778
25	.....	$^3D^o_2$	60.1618	60.0286	60.0370
26	.....	$^1F^o_3$	60.1974	60.0705	60.0784
27	.....	$^1P^o_1$	60.6004	60.6356	60.6368
28	$2s2p^6 3s$	$^3S_1$	.....	63.2048	63.2124
29	.....	$^1S_0$	.....	63.6956	63.6988
30	$2s2p^6 3p$	$^3P^o_0$	.....	65.6263	65.6342
31	.....	$^3P^o_1$	65.6012	65.6594	65.6674
32	.....	$^3P^o_2$	.....	65.8295	65.8373
33	.....	$^1P^o_1$	65.9238	65.9717	65.9800
34	$2s2p^6 3d$	$^3D_1$	.....	68.9168	68.9199
35	.....	$^3D_2$	.....	68.9268	68.9299
36	.....	$^3D_3$	.....	68.9459	68.9492
37	.....	$^1D_2$	.....	69.3192	69.3246
38	$2s^2 2p^5 4s$	$^3P^o_2$	.....	71.6515	71.6597
39	.....	$^1P^o_1$	71.8607	71.6987	71.7069
40	.....	$^3S_1$	.....	72.5806	72.5874
41	$2s^2 2p^5 4p$	$^3P^o_0$	.....	72.5829	72.5911
42	$2s^2 2p^5 4s$	$^3P^o_1$	72.7465	72.6071	72.6153
43	$2s^2 2p^5 4p$	$^3D_2$	.....	72.6448	72.6530
44	.....	$^3D_3$	.....	72.6937	72.7022
45	.....	$^1P_1$	.....	72.7239	72.7323

Table 1. Target levels of Fe XVII and their threshold energies (in Ryd).

Index	Configuration	Level	Expt.[a]	GRASP[b]	GRASP[c]
46	$2s^2 2p^5 4p$	$^3P_2$	.....	72.7669	72.7756
47	.....	$^3P_0$	.....	73.0629	73.0634
48	.....	$^3D_1$	.....	73.5564	73.5649
49	.....	$^3P_1$	.....	73.6435	73.6515
50	.....	$^1D_2$	.....	73.6597	73.6682
51	$2s^2 2p^5 4d$	$^3P^o_0$	.....	73.8051	73.8125
52	.....	$^3P^o_1$	73.9584	73.8374	73.8449
53	.....	$^3F^o_4$	.....	73.8771	73.8853
54	.....	$^3P^o_2$	.....	73.8903	73.8982
55	.....	$^3F^o_3$	.....	73.8992	73.9075
56	$2s^2 2p^5 4p$	$^1S_0$	.....	73.9250	73.9148
57	$2s^2 2p^5 4d$	$^1D^o_2$	.....	73.9453	73.9538
58	.....	$^3D^o_3$	.....	73.9733	73.9819
59	.....	$^3D^o_1$	74.3047	74.1736	74.1765
60	$2s^2 2p^5 4f$	$^3D_1$	.....	74.4536	74.4623
61	.....	$^1G_4$	.....	74.4546	74.4625
62	.....	$^3G_5$	.....	74.4559	74.4638
63	.....	$^3D_2$	.....	74.4639	74.4726
64	.....	$^3F_3$	.....	74.4888	74.4975
65	.....	$^1D_2$	.....	74.4929	74.5015
66	.....	$^1F_3$	.....	74.4955	74.5040
67	.....	$^3F_4$	.....	74.5012	74.5096
68	$2s^2 2p^5 4d$	$^3F^o_2$	.....	74.8209	74.8292
69	.....	$^3D^o_2$	.....	74.8396	74.8476
70	.....	$^1F^o_3$	.....	74.8622	74.8705
71	.....	$^1P^o_1$	75.1704	75.0349	75.0358
72	$2s^2 2p^5 4f$	$^3G_3$	.....	75.4005	75.4086
73	.....	$^3G_4$	.....	75.4087	75.4168
74	.....	$^3D_3$	.....	75.4171	75.4258
75	.....	$^3F_2$	.....	75.4180	75.4267
76	$2s^2 2p^5\ 5s$	$^3P^o_2$	.....	.....	79.6047
77	.....	$^1P^o_1$	79.79	.....	79.6289
78	$2s^2 2p^5 5p$	$^3S_1$	.....	.....	80.0630
79	.....	$^3D_2$	.....	.....	80.0985
80	.....	$^3D_3$	.....	.....	80.1230
81	.....	$^1P_1$	.....	.....	80.1382
82	.....	$^3P_2$	.....	.....	80.1593
83	.....	$^1S_0$	.....	.....	80.3254
84	$2s^2 2p^5\ 5s$	$^3P^o_0$	.....	.....	80.5357
85	.....	$^3P^o_1$	80.70	.....	80.5468

Table 1. Target levels of Fe XVII and their threshold energies (in Ryd).

Index	Configuration	Level	Expt.[a]	GRASP[b]	GRASP[c]
86	$2s^2 2p^5$ 5d	$^3P^o_0$	.....	.....	80.6646
87	.....	$^3P^o_1$	80.70	.....	80.6813
88	.....	$^3F^o_4$	.....	.....	80.6989
89	.....	$^3P^o_2$	.....	.....	80.7066
90	.....	$^3F^o_3$	.....	.....	80.7092
91	.....	$^1D^o_2$	.....	.....	80.7310
92	.....	$^3D^o_3$	.....	.....	80.7445
93	.....	$^1P^o_1$	81.85	.....	80.8554
94	$2s^2 2p^5$ 5f	$^3D_1$	.....	.....	80.9757
95	.....	$^3D_2$	.....	.....	80.9842
96	.....	$^3G_5$	.....	.....	80.9868
97	.....	$^1G_4$	.....	.....	80.9869
98	.....	$^3F_3$	.....	.....	80.9997
99	.....	$^1D_2$	.....	.....	81.0059
100	.....	$^1F_3$	.....	.....	81.0067
101	.....	$^3G_4$	.....	.....	81.0099
102	$2s^2 2p^5$ 5g	$^3F^o_2$	.....	.....	81.0102
103	.....	$^3F^o_3$	.....	.....	81.0121
104	.....	$^1H^o_5$	.....	.....	81.0189
105	.....	$^3H^o_6$	.....	.....	81.0206
106	.....	$^3G^o_3$	.....	.....	81.0243
107	.....	$^3G^o_4$	.....	.....	81.0256
108	.....	$^1G^o_4$	.....	.....	81.0301
109	.....	$^3G^o_5$	.....	.....	81.0317
110	$2s^2 2p^5$ 5p	$^3D_1$	.....	.....	81.0215
111	.....	$^3P_1$	.....	.....	81.0539
112	.....	$^1D_2$	.....	.....	81.0729
113	.....	$^3P_0$	.....	.....	81.1638
114	$2s2p^6 4s$	$^3S_1$	.....	81.5593	81.5934
115	$2s^2 2p^5$ 5d	$^3F^o_2$	.....	.....	81.6362
116	.....	$^3D^o_2$	.....	.....	81.6441
117	.....	$^1F^o_3$	.....	.....	81.6568
118	.....	$^3D^o_1$	80.98	.....	81.7289
119	$2s2p^6 4s$	$^1S_0$	.....	81.7322	81.7463
120	$2s^2 2p^5$ 5f	$^3G_3$	.....	.....	81.9260
121	.....	$^3D_3$	.....	.....	81.9298
122	.....	$^3G_4$	.....	.....	81.9307
123	.....	$^3F_2$	.....	.....	81.9337
124	$2s^2 2p^5$ 5g	$^1F^o_3$	.....	.....	81.9537
125	.....	$^3F^o_4$	.....	.....	81.9551
126	.....	$^3H^o_4$	.....	.....	81.9574
127	.....	$^3H^o_5$	.....	.....	81.9592
128	$2s2p^6 4p$	$^3P^o_0$	.....	82.5375	82.5523
129	.....	$^3P^o_1$	82.5244	82.5493	82.5635
130	.....	$^3P^o_2$	.....	82.6183	82.6321
131	.....	$^1P^o_1$	82.6702	82.6654	82.6771

Table 1. Target levels of Fe XVII and their threshold energies (in Ryd).

Index	Configuration	Level	Expt.[a]	GRASP[b]	GRASP[c]
132	$2s2p^6 4d$	$^3D_1$	.....	83.7747	83.7876
133	.....	$^3D_2$	.....	83.7793	83.7923
134	.....	$^3D_3$	.....	83.7880	83.8011
135	.....	$^1D_2$	.....	83.9205	83.9300
136	$2s2p^6 4f$	$^3F^o_2$	.....	84.3381	84.3522
137	.....	$^3F^o_3$	.....	84.3394	84.3541
138	.....	$^3F^o_4$	.....	84.3430	84.3581
139	.....	$^1F^o_3$	.....	84.3538	84.3681
140	$2s2p^6 5s$	$^3S_1$	.....	.....	89.4930
141	.....	$^1S_0$	.....	.....	89.5737
142	$2s2p^6 5p$	$^3P^o_0$	.....	.....	89.9790
143	.....	$^3P^o_1$	90.01	.....	89.9847
144	.....	$^3P^o_2$	.....	.....	90.0191
145	.....	$^1P^o_1$	90.01	.....	90.0413
146	$2s2p^6 5d$	$^3D_1$	.....	.....	90.5803
147	.....	$^3D_2$	.....	.....	90.5827
148	.....	$^3D_3$	.....	.....	90.5873
149	.....	$^1D_2$	.....	.....	90.6501
150	$2s2p^6 5f$	$^3F^o_2$	.....	.....	90.8618
151	.....	$^3F^o_3$	.....	.....	90.8625
152	.....	$^3F^o_4$	.....	.....	90.8642
153	.....	$^1F^o_3$	.....	.....	90.8719
154	$2s2p^6 5g$	$^3G_3$	.....	.....	90.8915
155	.....	$^3G_4$	.....	.....	90.8914
156	.....	$^3G_5$	.....	.....	90.8931
157	.....	$^1G_4$	.....	.....	90.8934

a: NIST (`http://www.physics.nist.gov/PhysRefData`)
b: GRASP results of Aggarwal et al. (2003a) for 89 levels
c: Present results from GRASP for 157 levels

Table 2. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric dipole (E1) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
1	3	1.709+01	9.520+11	1.251-01	7.039-03	2	66	4.272+01	1.189+07	4.554-06	3.202-06
1	5	1.682+01	8.358+11	1.063-01	5.885-03	2	72	4.098+01	4.980+05	1.755-07	1.184-07
1	17	1.548+01	9.231+10	9.955-03	5.075-04	2	74	4.095+01	1.628+08	5.727-05	3.860-05
1	23	1.529+01	5.892+12	6.192-01	3.116-02	2	75	4.094+01	1.642+07	4.127-06	2.781-06
1	27	1.503+01	2.476+13	2.515-00	1.244-01	2	78	3.389+01	1.351+11	1.395-02	7.782-03
1	31	1.388+01	4.074+11	3.529-02	1.612-03	2	79	3.384+01	6.404+10	1.099-02	6.124-03
1	33	1.381+01	3.315+12	2.844-01	1.293-02	2	80	3.381+01	1.382+11	3.317-02	1.846-02
1	39	1.271+01	3.488+11	2.534-02	1.060-03	2	81	3.379+01	2.911+09	2.990-04	1.663-04
1	42	1.255+01	2.465+11	1.746-02	7.214-04	2	82	3.376+01	6.902+10	1.180-02	6.557-03
1	52	1.234+01	5.659+10	3.876-03	1.575-04	2	94	3.277+01	6.285+06	6.073-07	3.276-07
1	59	1.228+01	5.747+12	3.901-01	1.578-02	2	95	3.276+01	6.258+07	1.007-05	5.431-06
1	71	1.214+01	7.003+12	4.645-01	1.857-02	2	98	3.274+01	1.457+08	3.279-05	1.768-05
1	77	1.144+01	2.106+11	1.240-02	4.673-04	2	99	3.274+01	7.501+05	1.205-07	6.495-08
1	85	1.131+01	2.494+11	1.436-02	5.348-04	2	100	3.274+01	1.894+06	4.261-07	2.296-07
1	87	1.130+01	2.186+10	1.254-03	4.663-05	2	110	3.272+01	4.168+07	4.014-06	2.162-06
1	93	1.127+01	4.154+12	2.373-01	8.805-03	2	111	3.268+01	1.510+08	1.451-05	7.807-06
1	118	1.115+01	3.437+12	1.922-01	7.054-03	2	112	3.266+01	6.726+05	1.076-07	5.783-08
1	129	1.104+01	2.392+11	1.310-02	4.762-04	2	114	3.206+01	3.129+08	2.893-05	1.527-05
1	131	1.102+01	1.645+12	8.986-02	3.261-03	2	120	3.169+01	1.417+06	2.987-07	1.558-07
1	143	1.013+01	1.855+11	8.556-03	2.852-04	2	121	3.169+01	1.087+08	2.291-05	1.195-05
1	145	1.012+01	1.174+12	5.409-02	1.802-03	2	123	3.168+01	1.104+07	1.661-06	8.664-07
2	6	4.096+02	3.366+09	5.082-02	3.426-01	2	132	2.976+01	3.509+06	2.796-07	1.370-07
2	7	3.655+02	2.597+09	5.203-02	3.130-01	2	133	2.976+01	3.314+07	4.400-06	2.155-06
2	8	3.492+02	6.427+09	1.645-01	9.453-01	2	134	2.975+01	1.396+08	2.593-05	1.270-05
2	9	3.378+02	3.760+08	3.860-03	2.146-02	2	135	2.963+01	1.468+05	1.932-08	9.420-09
2	10	3.222+02	4.522+09	7.038-02	3.733-01	2	140	2.509+01	1.090+06	6.169-08	2.547-08
2	12	2.695+02	1.190+07	7.774-05	3.448-04	2	146	2.436+01	2.406+06	1.284-07	5.149-08
2	13	2.519+02	9.110+08	5.199-03	2.156-02	2	147	2.436+01	2.320+07	2.064-06	8.275-07
2	14	2.499+02	1.178+08	1.103-03	4.537-03	2	148	2.435+01	9.125+07	1.136-05	4.554-06
2	28	9.075+01	9.640+10	7.141-02	1.067-01	2	149	2.431+01	8.327+04	7.380-09	2.954-09
2	34	5.786+01	2.012+06	6.058-07	5.770-07	2	154	2.416+01	3.852-01	4.718-14	1.876-14
2	35	5.782+01	1.621+07	8.125-06	7.733-06	3	6	4.379+02	1.282+08	3.687-03	1.595-02
2	36	5.775+01	4.132+07	2.893-05	2.750-05	3	7	3.879+02	2.531+09	9.514-02	3.645-01
2	37	5.641+01	1.196+05	5.706-08	5.298-08	3	9	3.568+02	5.683+09	1.085-01	3.823-01
2	40	4.693+01	2.380+11	4.715-02	3.642-02	3	10	3.394+02	3.273+09	9.424-02	3.160-01
2	43	4.677+01	1.167+11	3.829-02	2.948-02	3	11	2.944+02	7.859+09	3.404-02	9.896-02
2	44	4.666+01	2.452+11	1.120-01	8.602-02	3	12	2.814+02	3.986+07	4.732-04	1.315-03
2	45	4.658+01	4.390+09	8.569-04	6.571-04	3	13	2.623+02	4.435+06	4.574-05	1.185-04
2	46	4.648+01	1.191+11	3.858-02	2.952-02	3	14	2.601+02	8.851+07	1.497-03	3.846-03
2	48	4.468+01	7.772+07	1.396-05	1.027-05	3	15	1.969+02	1.375+10	2.665-02	5.183-02
2	49	4.449+01	1.042+09	1.856-04	1.359-04	3	28	9.207+01	2.570+10	3.265-02	2.969-02
2	50	4.446+01	3.068+07	9.091-06	6.653-06	3	29	8.775+01	6.684+10	2.572-02	2.229-02
2	60	4.280+01	1.138+07	1.875-06	1.321-06	3	34	5.839+01	1.019+07	5.207-06	3.003-06
2	63	4.278+01	7.864+07	2.158-05	1.519-05	3	35	5.836+01	1.780+07	1.515-05	8.729-06
2	64	4.273+01	1.816+08	6.958-05	4.894-05	3	37	5.692+01	4.564+08	3.695-04	2.077-04
2	65	4.272+01	3.226+06	8.827-07	6.207-07	3	40	4.728+01	4.000+09	1.340-03	6.260-04

Table 2. Transition energies ($\AA$), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric dipole (E1) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
3	43	4.712+01	1.375+11	7.627-02	3.549-02	4	78	3.510+01	2.760+08	1.529-04	1.767-05
3	45	4.693+01	2.360+11	7.791-02	3.611-02	4	81	3.499+01	2.088+07	1.150-05	1.325-06
3	46	4.683+01	1.078+11	5.908-02	2.732-02	4	94	3.390+01	1.136+09	5.875-04	6.558-05
3	47	4.614+01	1.994+11	2.122-02	9.670-03	4	110	3.385+01	3.511+10	1.809-02	2.016-03
3	48	4.500+01	1.071+09	3.252-04	1.445-04	4	111	3.381+01	9.924+10	5.101-02	5.677-03
3	49	4.481+01	3.079+08	9.268-05	4.101-05	4	114	3.314+01	8.422+08	4.161-04	4.540-05
3	50	4.477+01	2.608+09	1.306-03	5.775-04	4	132	3.069+01	7.211+07	3.055-05	3.088-06
3	56	4.424+01	5.227+09	5.112-04	2.233-04	4	140	2.575+01	8.406+05	2.506-07	2.124-08
3	60	4.309+01	8.820+07	2.455-05	1.045-05	4	146	2.498+01	7.382+07	2.072-05	1.704-06
3	63	4.307+01	2.396+07	1.111-05	4.724-06	5	6	7.560+02	1.100+07	9.420-04	7.033-03
3	65	4.301+01	7.254+08	3.353-04	1.424-04	5	7	6.183+02	2.031+05	1.940-05	1.184-04
3	75	4.121+01	5.326+08	2.260-04	9.199-05	5	9	5.429+02	2.886+05	1.275-05	6.838-05
3	78	3.407+01	3.026+09	5.265-04	1.771-04	5	10	5.037+02	2.464+07	1.562-03	7.769-03
3	79	3.402+01	7.984+10	2.309-02	7.759-03	5	11	4.105+02	1.214+09	1.022-02	4.144-02
3	81	3.397+01	1.393+11	2.410-02	8.085-03	5	12	3.857+02	2.822+09	6.291-02	2.396-01
3	82	3.395+01	6.148+10	1.770-02	5.934-03	5	13	3.506+02	2.334+09	4.302-02	1.490-01
3	83	3.374+01	1.295+11	7.365-03	2.454-03	5	14	3.468+02	6.574+09	1.976-01	6.769-01
3	94	3.294+01	1.361+07	2.214-06	7.204-07	5	15	2.429+02	1.515+10	4.466-02	1.071-01
3	95	3.293+01	3.238+06	8.776-07	2.854-07	5	28	1.010+02	2.307+10	3.528-02	3.519-02
3	99	3.291+01	2.878+08	7.787-05	2.531-05	5	29	9.583+01	4.166+10	1.912-02	1.809-02
3	110	3.289+01	8.328+08	1.351-04	4.387-05	5	34	6.186+01	2.090+06	1.199-06	7.325-07
3	111	3.285+01	9.274+07	1.500-05	4.868-06	5	35	6.182+01	1.386+06	1.324-06	8.084-07
3	112	3.283+01	1.506+09	4.054-04	1.314-04	5	37	6.021+01	3.352+08	3.036-04	1.806-04
3	113	3.272+01	8.036+07	4.300-06	1.389-06	5	40	4.953+01	8.324+08	3.062-04	1.498-04
3	114	3.222+01	1.437+08	2.237-05	7.118-06	5	43	4.936+01	7.292+08	4.439-04	2.164-04
3	119	3.205+01	4.714+08	2.420-05	7.660-06	5	45	4.914+01	1.735+09	6.283-04	3.050-04
3	123	3.184+01	2.343+08	5.934-05	1.866-05	5	46	4.903+01	2.691+09	1.616-03	7.827-04
3	132	2.990+01	2.689+07	3.605-06	1.065-06	5	47	4.828+01	1.405+10	1.637-03	7.805-04
3	133	2.990+01	5.573+07	1.245-05	3.676-06	5	48	4.703+01	1.661+11	5.507-02	2.558-02
3	135	2.976+01	1.099+08	2.432-05	7.149-06	5	49	4.682+01	7.960+10	2.616-02	1.210-02
3	140	2.519+01	6.712+05	6.384-08	1.588-08	5	50	4.678+01	2.378+11	1.300-01	6.008-02
3	141	2.513+01	1.787+07	5.639-07	1.400-07	5	56	4.620+01	2.049+11	2.185-02	9.971-03
3	146	2.445+01	2.003+07	1.796-06	4.336-07	5	60	4.495+01	1.472+08	4.460-05	1.980-05
3	147	2.445+01	4.408+07	6.585-06	1.590-06	5	63	4.493+01	9.323+08	4.702-04	2.087-04
3	149	2.441+01	1.305+08	1.943-05	4.684-06	5	65	4.486+01	4.958+08	2.493-04	1.105-04
4	6	7.028+02	1.003+07	2.229-03	5.157-03	5	75	4.291+01	1.566+08	7.206-05	3.054-05
4	9	5.150+02	5.809+06	6.928-04	1.175-03	5	78	3.522+01	1.037+08	1.929-05	6.710-06
4	12	3.713+02	2.107+09	1.307-01	1.597-01	5	79	3.517+01	9.191+08	2.841-04	9.868-05
4	13	3.388+02	4.111+09	2.122-01	2.366-01	5	81	3.512+01	2.298+09	4.248-04	1.473-04
4	28	9.999+01	1.474+10	6.630-02	2.182-02	5	82	3.509+01	1.657+09	5.098-04	1.767-04
4	34	6.148+01	5.434+06	9.239-06	1.870-06	5	83	3.487+01	3.320+07	2.017-06	6.945-07
4	40	4.929+01	1.078+09	1.178-03	1.911-04	5	94	3.402+01	1.584+09	2.748-04	9.233-05
4	45	4.890+01	9.566+07	1.029-04	1.657-05	5	95	3.401+01	3.037+07	8.778-06	2.948-06
4	48	4.681+01	9.023+10	8.893-02	1.371-02	5	99	3.398+01	3.402+08	9.817-05	3.295-05
4	49	4.660+01	1.507+11	1.472-01	2.259-02	5	110	3.396+01	1.080+11	1.868-02	6.266-03
4	60	4.475+01	3.584+08	3.228-04	4.755-05	5	111	3.392+01	3.158+10	5.449-03	1.825-03

Table 2. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric dipole (E1) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
5	112	3.390+01	1.366+11	3.921-02	1.313-02	6	102	3.558+01	2.052+03	6.489-10	2.280-10
5	113	3.378+01	1.338+11	7.634-03	2.547-03	6	115	3.473+01	3.666+08	1.105-04	3.789-05
5	114	3.325+01	1.492+09	2.473-04	8.123-05	6	116	3.472+01	8.198+09	2.469-03	8.465-04
5	119	3.307+01	1.613+09	8.815-05	2.879-05	6	118	3.460+01	1.774+09	3.185-04	1.089-04
5	123	3.285+01	4.144+07	1.117-05	3.624-06	6	128	3.356+01	1.575+08	8.864-06	2.938-06
5	132	3.079+01	2.654+07	3.772-06	1.147-06	6	129	3.354+01	1.457+08	2.458-05	8.142-06
5	133	3.078+01	4.604+07	1.090-05	3.314-06	6	130	3.346+01	2.814+08	7.871-05	2.601-05
5	135	3.064+01	9.450+07	2.217-05	6.708-06	6	131	3.340+01	2.750+07	4.599-06	1.517-06
5	140	2.581+01	1.112+06	1.110-07	2.831-08	6	136	3.147+01	6.582+06	1.629-06	5.062-07
5	141	2.575+01	1.710+07	5.667-07	1.441-07	6	142	2.635+01	1.885+08	6.539-06	1.702-06
5	146	2.504+01	2.944+07	2.768-06	6.845-07	6	143	2.634+01	1.117+08	1.162-05	3.024-06
5	147	2.504+01	4.384+07	6.868-06	1.698-06	6	144	2.632+01	1.754+08	3.035-05	7.889-06
5	149	2.499+01	1.347+08	2.102-05	5.188-06	6	145	2.630+01	1.118+07	1.159-06	3.011-07
6	16	2.696+02	1.132+10	4.111-02	1.094-01	6	150	2.569+01	4.355+06	7.184-07	1.823-07
6	17	2.640+02	9.599+09	1.003-01	2.615-01	7	17	2.862+02	7.932+08	5.847-03	2.755-02
6	18	2.539+02	5.524+09	8.899-02	2.232-01	7	18	2.745+02	8.919+08	1.007-02	4.550-02
6	21	2.406+02	3.338+08	4.830-03	1.148-02	7	20	2.689+02	1.116+10	1.693-01	7.495-01
6	23	2.160+02	5.554+07	3.886-04	8.293-04	7	21	2.590+02	5.068+09	5.096-02	2.173-01
6	24	1.989+02	2.435+07	2.406-04	4.725-04	7	22	2.532+02	1.225+08	1.649-03	6.872-03
6	25	1.963+02	7.724+07	7.438-04	1.442-03	7	23	2.307+02	7.272+08	3.482-03	1.323-02
6	27	1.739+02	1.144+07	5.182-05	8.897-05	7	24	2.112+02	1.145+08	7.658-04	2.663-03
6	30	8.900+01	5.037+10	1.994-02	1.753-02	7	25	2.084+02	2.230+08	1.451-03	4.978-03
6	31	8.871+01	1.530+10	1.806-02	1.582-02	7	26	2.064+02	8.866+06	7.928-05	2.694-04
6	32	8.727+01	3.587+09	6.825-03	5.882-03	7	27	1.832+02	4.253+07	1.285-04	3.874-04
6	33	8.609+01	3.485+09	3.873-03	3.293-03	7	31	9.109+01	8.497+10	6.342-02	9.510-02
6	38	5.603+01	6.765+10	5.306-02	2.936-02	7	32	8.957+01	7.822+08	9.409-04	1.387-03
6	39	5.587+01	5.165+09	2.417-03	1.334-03	7	33	8.833+01	5.161+09	3.622-03	5.267-03
6	41	5.299+01	6.725+09	9.438-04	4.940-04	7	38	5.697+01	5.449+10	2.651-02	2.486-02
6	42	5.292+01	4.357+09	1.829-03	9.560-04	7	39	5.680+01	1.019+11	2.956-02	2.764-02
6	51	4.948+01	5.049+11	6.177-02	3.019-02	7	42	5.376+01	3.437+08	8.934-05	7.905-05
6	52	4.939+01	3.896+11	1.425-01	6.950-02	7	52	5.012+01	5.694+10	1.287-02	1.062-02
6	54	4.925+01	1.916+11	1.161-01	5.647-02	7	54	4.997+01	4.420+10	1.655-02	1.361-02
6	57	4.910+01	6.457+09	3.890-03	1.886-03	7	55	4.995+01	4.618+11	2.418-01	1.988-01
6	59	4.852+01	4.288+08	1.514-04	7.253-05	7	57	4.982+01	1.722+11	6.408-02	5.255-02
6	68	4.689+01	4.237+08	2.328-04	1.078-04	7	58	4.975+01	3.909+09	2.031-03	1.663-03
6	69	4.685+01	1.249+10	6.849-03	3.169-03	7	59	4.922+01	1.406+10	3.063-03	2.482-03
6	71	4.640+01	1.753+09	5.657-04	2.592-04	7	68	4.755+01	8.377+07	2.839-05	2.222-05
6	76	3.764+01	2.896+10	1.025-02	3.811-03	7	69	4.750+01	1.264+09	4.274-04	3.342-04
6	77	3.760+01	2.014+09	4.269-04	1.586-04	7	70	4.744+01	1.474+09	6.963-04	5.438-04
6	84	3.625+01	7.559+09	4.963-04	1.777-04	7	71	4.704+01	6.917+05	1.377-07	1.066-07
6	85	3.623+01	4.933+09	9.709-04	3.474-04	7	76	3.806+01	2.441+10	5.302-03	3.322-03
6	86	3.606+01	2.706+11	1.759-02	6.264-03	7	77	3.802+01	4.668+10	6.071-03	3.800-03
6	87	3.604+01	2.074+11	4.038-02	1.437-02	7	85	3.662+01	4.153+08	5.010-05	3.020-05
6	89	3.600+01	1.029+11	3.334-02	1.185-02	7	87	3.642+01	3.535+10	4.219-03	2.530-03
6	91	3.597+01	3.256+09	1.053-03	3.739-04	7	89	3.639+01	2.624+10	5.209-03	3.120-03
6	93	3.579+01	4.964+08	9.533-05	3.370-05	7	90	3.638+01	2.607+11	7.245-02	4.339-02

Table 2. Transition energies ($\AA$), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric dipole (E1) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
7	91	3.635+01	9.592+10	1.900-02	1.137-02	8	92	3.650+01	5.406+10	1.080-02	9.085-03
7	92	3.633+01	2.253+09	6.244-04	3.734-04	8	102	3.612+01	1.776+03	2.480-10	2.065-10
7	93	3.617+01	7.879+09	9.274-04	5.522-04	8	103	3.612+01	3.639+02	7.115-11	5.922-11
7	102	3.595+01	7.404+04	1.435-08	8.490-09	8	106	3.610+01	7.854+04	1.534-08	1.276-08
7	103	3.595+01	1.014+07	2.751-06	1.628-06	8	107	3.610+01	5.893+05	1.480-07	1.231-07
7	106	3.593+01	2.737+06	7.416-07	4.386-07	8	108	3.609+01	5.078+03	1.275-09	1.060-09
7	115	3.509+01	1.901+08	3.508-05	2.026-05	8	115	3.524+01	5.762+06	7.665-07	6.225-07
7	116	3.508+01	5.090+08	9.387-05	5.420-05	8	116	3.523+01	3.542+07	4.708-06	3.823-06
7	117	3.506+01	1.152+09	2.971-04	1.714-04	8	117	3.522+01	1.684+07	3.131-06	2.541-06
7	118	3.496+01	2.715+07	2.985-06	1.718-06	8	124	3.482+01	3.094+05	5.622-08	4.511-08
7	124	3.466+01	2.130+06	5.370-07	3.064-07	8	125	3.481+01	6.551+06	1.530-06	1.228-06
7	129	3.388+01	3.818+06	3.941-07	2.198-07	8	126	3.481+01	5.261+04	1.229-08	9.858-09
7	130	3.379+01	2.384+07	4.080-06	2.269-06	8	130	3.394+01	4.378+07	5.399-06	4.223-06
7	131	3.373+01	3.613+02	3.698-11	2.053-11	8	136	3.189+01	4.524+06	4.928-07	3.622-07
7	136	3.176+01	9.541+07	1.443-05	7.546-06	8	137	3.189+01	1.105+08	1.685-05	1.239-05
7	137	3.176+01	6.842+08	1.449-04	7.574-05	8	138	3.189+01	1.051+09	2.059-04	1.513-04
7	139	3.175+01	1.134+08	2.398-05	1.253-05	8	139	3.188+01	3.717+06	5.662-07	4.159-07
7	143	2.655+01	2.474+08	1.569-05	6.858-06	8	144	2.661+01	4.764+08	3.614-05	2.217-05
7	144	2.652+01	7.134+07	7.525-06	3.286-06	8	150	2.598+01	3.080+06	2.225-07	1.332-07
7	145	2.651+01	1.824+06	1.153-07	5.030-08	8	151	2.598+01	7.364+07	7.449-06	4.459-06
7	150	2.589+01	6.281+07	6.312-06	2.690-06	8	152	2.597+01	6.927+08	9.008-05	5.392-05
7	151	2.589+01	4.457+08	6.269-05	2.672-05	8	153	2.597+01	2.088+06	2.110-07	1.263-07
7	153	2.588+01	9.539+07	1.341-05	5.714-06	9	16	3.134+02	3.049+08	1.497-03	4.634-03
8	18	2.845+02	3.376+08	2.926-03	1.918-02	9	17	3.059+02	4.432+07	6.218-04	1.879-03
8	19	2.838+02	1.129+10	1.752-01	1.146-00	9	18	2.925+02	1.002+09	2.141-02	6.185-02
8	20	2.785+02	1.826+09	2.124-02	1.363-01	9	21	2.750+02	8.017+09	1.515-01	4.114-01
8	21	2.679+02	2.402+08	1.846-03	1.140-02	9	23	2.433+02	7.420+09	6.587-02	1.583-01
8	22	2.617+02	2.710+09	2.783-02	1.678-01	9	24	2.217+02	4.462+06	5.482-05	1.200-04
8	24	2.171+02	5.928+06	2.992-05	1.497-04	9	25	2.186+02	3.043+07	3.633-04	7.843-04
8	25	2.141+02	1.972+08	9.679-04	4.775-03	9	27	1.911+02	2.002+09	1.096-02	2.069-02
8	26	2.120+02	1.635+08	1.102-03	5.384-03	9	30	9.331+01	5.049+10	2.197-02	2.024-02
8	32	9.061+01	8.145+10	7.161-02	1.495-01	9	31	9.299+01	2.683+07	3.478-05	3.194-05
8	38	5.739+01	1.615+11	5.696-02	7.533-02	9	32	9.141+01	2.900+09	6.056-03	5.467-03
8	53	5.033+01	5.609+11	2.739-01	3.177-01	9	33	9.012+01	3.130+10	3.811-02	3.392-02
8	54	5.030+01	2.900+10	7.855-03	9.105-03	9	38	5.771+01	3.446+09	2.867-03	1.634-03
8	55	5.027+01	8.468+10	3.208-02	3.717-02	9	39	5.753+01	1.069+11	5.307-02	3.015-02
8	57	5.014+01	7.873+09	2.120-03	2.450-03	9	41	5.449+01	4.546+08	6.746-05	3.631-05
8	58	5.007+01	9.665+10	3.632-02	4.191-02	9	42	5.441+01	2.415+09	1.072-03	5.761-04
8	68	4.784+01	5.621+06	1.377-06	1.519-06	9	51	5.078+01	2.760+10	3.557-03	1.784-03
8	69	4.779+01	9.969+07	2.438-05	2.685-05	9	52	5.069+01	5.344+09	2.059-03	1.031-03
8	70	4.774+01	1.921+08	6.561-05	7.217-05	9	54	5.054+01	4.375+10	2.793-02	1.394-02
8	76	3.825+01	7.207+10	1.129-02	9.953-03	9	57	5.039+01	3.565+11	2.262-01	1.125-01
8	88	3.657+01	3.086+11	7.954-02	6.704-02	9	59	4.977+01	2.122+11	7.881-02	3.874-02
8	89	3.656+01	1.875+10	2.684-03	2.261-03	9	68	4.806+01	4.273+09	2.466-03	1.171-03
8	90	3.656+01	4.677+10	9.370-03	7.893-03	9	69	4.801+01	1.500+08	8.643-05	4.098-05
8	91	3.652+01	3.932+09	5.617-04	4.728-04	9	71	4.754+01	7.681+07	2.603-05	1.222-05

Table 2. Transition energies ($\AA$), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric dipole (E1) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
9	76	3.839+01	1.628+09	5.995-04	2.273-04	10	69	4.835+01	1.571+09	5.505-04	4.381-04
9	77	3.835+01	4.863+10	1.072-02	4.062-03	10	70	4.829+01	7.543+07	3.692-05	2.934-05
9	84	3.694+01	5.568+08	3.797-05	1.385-05	10	71	4.787+01	7.177+08	1.479-04	1.165-04
9	85	3.692+01	2.431+09	4.969-04	1.812-04	10	76	3.860+01	3.147+10	7.032-03	4.468-03
9	86	3.675+01	1.731+10	1.169-03	4.241-04	10	77	3.856+01	4.520+10	6.047-03	3.839-03
9	87	3.672+01	4.652+09	9.407-04	3.412-04	10	85	3.712+01	6.390+08	7.921-05	4.840-05
9	89	3.669+01	2.086+10	7.015-03	2.542-03	10	87	3.692+01	4.492+10	5.508-03	3.347-03
9	91	3.665+01	2.051+11	6.885-02	2.492-02	10	89	3.688+01	1.347+11	2.747-02	1.668-02
9	93	3.647+01	1.309+11	2.610-02	9.400-03	10	90	3.688+01	3.119+09	8.904-04	5.405-04
9	102	3.624+01	4.638+05	1.522-07	5.449-08	10	91	3.685+01	8.285+08	1.686-04	1.023-04
9	115	3.536+01	3.289+09	1.028-03	3.590-04	10	92	3.683+01	2.579+11	7.340-02	4.450-02
9	116	3.535+01	1.448+08	4.521-05	1.579-05	10	93	3.666+01	1.913+09	2.313-04	1.396-04
9	118	3.524+01	1.825+08	3.398-05	1.183-05	10	102	3.643+01	1.472+03	2.929-10	1.756-10
9	128	3.415+01	4.408+07	2.569-06	8.665-07	10	103	3.643+01	6.430+06	1.791-06	1.074-06
9	129	3.414+01	8.267+07	1.444-05	4.869-06	10	106	3.641+01	4.209+06	1.171-06	7.021-07
9	130	3.405+01	9.388+05	2.719-07	9.144-08	10	115	3.554+01	3.716+07	7.039-06	4.118-06
9	131	3.399+01	1.658+06	2.872-07	9.641-08	10	116	3.553+01	2.848+08	5.392-05	3.154-05
9	136	3.199+01	2.356+08	6.026-05	1.904-05	10	117	3.552+01	8.616+07	2.281-05	1.334-05
9	142	2.672+01	3.054+07	1.089-06	2.874-07	10	118	3.542+01	3.263+08	3.681-05	2.146-05
9	143	2.671+01	1.028+08	1.099-05	2.900-06	10	124	3.511+01	7.233+03	1.871-09	1.082-09
9	144	2.668+01	8.390+05	1.493-07	3.934-08	10	129	3.430+01	2.942+07	3.115-06	1.759-06
9	145	2.667+01	1.247+07	1.329-06	3.501-07	10	130	3.422+01	5.831+07	1.023-05	5.764-06
9	150	2.604+01	1.546+08	2.619-05	6.735-06	10	131	3.416+01	1.965+06	2.062-07	1.159-07
10	17	3.200+02	1.077+09	9.916-03	5.223-02	10	136	3.214+01	2.507+05	3.882-08	2.054-08
10	18	3.053+02	3.703+09	5.174-02	2.600-01	10	137	3.214+01	4.126+06	8.945-07	4.732-07
10	20	2.985+02	8.694+07	1.626-03	7.986-03	10	139	3.212+01	2.629+08	5.693-05	3.010-05
10	21	2.863+02	2.666+06	3.276-05	1.544-04	10	143	2.681+01	2.075+07	1.342-06	5.923-07
10	22	2.792+02	9.896+09	1.619-01	7.443-01	10	144	2.679+01	1.826+07	1.965-06	8.662-07
10	23	2.521+02	6.309+06	3.608-05	1.497-04	10	145	2.677+01	3.481+07	2.244-06	9.886-07
10	24	2.290+02	1.267+07	9.965-05	3.757-04	10	150	2.614+01	1.580+05	1.619-08	6.964-09
10	25	2.257+02	6.854+08	5.233-03	1.944-02	10	151	2.614+01	2.355+06	3.377-07	1.453-07
10	26	2.234+02	1.305+07	1.367-04	5.025-04	10	153	2.613+01	1.953+08	2.799-05	1.204-05
10	27	1.965+02	3.766+07	1.308-04	4.230-04	11	17	3.739+02	1.674+08	1.053-02	1.296-02
10	31	9.425+01	3.774+09	3.016-03	4.679-03	11	23	2.845+02	5.636+09	2.051-01	1.921-01
10	32	9.262+01	2.140+10	2.753-02	4.197-02	11	27	2.156+02	7.734+08	1.617-02	1.147-02
10	33	9.130+01	3.916+10	2.936-02	4.413-02	11	31	9.843+01	8.340+09	3.635-02	1.178-02
10	38	5.819+01	7.051+10	3.579-02	3.428-02	11	33	9.522+01	5.614+09	2.289-02	7.176-03
10	39	5.801+01	9.842+10	2.979-02	2.845-02	11	39	5.957+01	2.991+10	4.774-02	9.362-03
10	42	5.484+01	3.355+08	9.077-05	8.194-05	11	42	5.623+01	1.380+10	1.963-02	3.634-03
10	52	5.106+01	8.175+10	1.917-02	1.612-02	11	52	5.227+01	7.973+09	9.796-03	1.686-03
10	54	5.091+01	2.394+11	9.301-02	7.795-02	11	59	5.129+01	2.293+11	2.713-01	4.582-02
10	55	5.088+01	5.340+09	2.902-03	2.431-03	11	71	4.892+01	7.133+10	7.679-02	1.237-02
10	57	5.075+01	8.791+08	3.395-04	2.836-04	11	77	3.925+01	1.431+10	9.911-03	1.280-03
10	58	5.067+01	4.474+11	2.411-01	2.011-01	11	85	3.775+01	3.211+09	2.058-03	2.558-04
10	59	5.013+01	1.503+09	3.398-04	2.804-04	11	87	3.754+01	2.358+09	1.495-03	1.848-04
10	68	4.839+01	1.086+08	3.814-05	3.038-05	11	93	3.728+01	1.248+11	7.799-02	9.571-03

Table 2. Transition energies ($\AA$), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric dipole (E1) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
11	118	3.599+01	5.430+10	3.164-02	3.748-03	12	136	3.278+01	6.528+08	1.753-04	5.675-05
11	129	3.484+01	5.655+07	3.088-05	3.542-06	12	142	2.726+01	3.070+08	1.140-05	3.070-06
11	131	3.469+01	2.560+07	1.386-05	1.582-06	12	143	2.726+01	9.945+07	1.108-05	2.982-06
11	143	2.714+01	1.583+07	5.244-06	4.685-07	12	144	2.723+01	1.094+04	2.027-09	5.452-10
11	145	2.710+01	3.672+06	1.212-06	1.081-07	12	145	2.721+01	1.718+07	1.907-06	5.125-07
12	16	4.100+02	2.413+06	2.027-05	8.206-05	12	150	2.656+01	4.262+08	7.512-05	1.971-05
12	17	3.972+02	3.258+05	7.705-06	3.022-05	13	16	4.586+02	1.395+08	1.466-03	6.642-03
12	18	3.748+02	1.320+07	4.635-04	1.716-03	13	17	4.427+02	4.253+07	1.249-03	5.462-03
12	21	3.466+02	5.583+06	1.675-04	5.735-04	13	18	4.151+02	1.344+07	5.788-04	2.373-03
12	23	2.978+02	1.660+08	2.206-03	6.486-03	13	21	3.807+02	4.407+06	1.596-04	6.002-04
12	24	2.660+02	1.166+10	2.062-01	5.420-01	13	23	3.226+02	1.988+08	3.101-03	9.882-03
12	25	2.615+02	2.432+07	4.156-04	1.073-03	13	24	2.857+02	3.101+08	6.326-03	1.785-02
12	27	2.231+02	5.862+09	4.375-02	9.641-02	13	25	2.805+02	9.990+09	1.964-01	5.442-01
12	30	1.003+02	3.824+10	1.924-02	1.907-02	13	27	2.368+02	3.130+09	2.631-02	6.154-02
12	31	9.998+01	2.424+10	3.633-02	3.587-02	13	30	1.030+02	2.531+09	1.342-03	1.366-03
12	32	9.815+01	5.134+08	1.236-03	1.198-03	13	31	1.026+02	1.846+09	2.916-03	2.956-03
12	33	9.666+01	5.306+09	7.432-03	7.095-03	13	32	1.007+02	1.254+10	3.179-02	3.162-02
12	38	6.032+01	3.068+07	2.790-05	1.662-05	13	33	9.914+01	1.188+10	1.751-02	1.714-02
12	39	6.013+01	1.580+09	8.566-04	5.087-04	13	38	6.128+01	3.571+09	3.351-03	2.028-03
12	41	5.682+01	1.347+11	2.173-02	1.220-02	13	39	6.108+01	2.061+08	1.153-04	6.955-05
12	42	5.673+01	6.399+10	3.088-02	1.730-02	13	41	5.767+01	2.218+11	3.686-02	2.099-02
12	51	5.280+01	3.121+08	4.348-05	2.267-05	13	42	5.758+01	4.526+10	2.249-02	1.279-02
12	52	5.270+01	4.114+06	1.713-06	8.914-07	13	51	5.353+01	2.676+10	3.831-03	2.025-03
12	54	5.254+01	2.767+09	1.908-03	9.900-04	13	52	5.343+01	1.420+10	6.077-03	3.207-03
12	57	5.237+01	1.912+09	1.310-03	6.777-04	13	54	5.326+01	1.730+09	1.226-03	6.448-04
12	59	5.171+01	1.857+08	7.443-05	3.801-05	13	57	5.309+01	1.938+08	1.365-04	7.156-05
12	68	4.986+01	4.611+11	2.864-01	1.410-01	13	59	5.241+01	1.778+09	7.321-04	3.789-04
12	69	4.981+01	4.243+08	2.630-04	1.294-04	13	68	5.051+01	7.106+09	4.530-03	2.260-03
12	71	4.930+01	1.253+11	4.567-02	2.224-02	13	69	5.046+01	4.786+11	3.045-01	1.517-01
12	76	3.953+01	1.648+07	6.434-06	2.512-06	13	71	4.994+01	8.217+10	3.072-02	1.515-02
12	77	3.949+01	1.178+09	2.754-04	1.074-04	13	76	3.994+01	1.794+09	7.150-04	2.820-04
12	84	3.800+01	6.047+10	4.363-03	1.637-03	13	77	3.990+01	2.628+08	6.273-05	2.472-05
12	85	3.798+01	2.783+10	6.018-03	2.258-03	13	84	3.837+01	9.261+10	6.815-03	2.583-03
12	86	3.779+01	5.485+07	3.915-06	1.461-06	13	85	3.836+01	1.830+10	4.036-03	1.529-03
12	87	3.777+01	1.941+08	4.150-05	1.548-05	13	86	3.817+01	1.994+10	1.451-03	5.471-04
12	89	3.773+01	1.801+09	6.406-04	2.387-04	13	87	3.814+01	1.226+10	2.674-03	1.007-03
12	91	3.769+01	2.746+09	9.746-04	3.628-04	13	89	3.810+01	3.838+09	1.392-03	5.238-04
12	93	3.750+01	1.761+09	3.712-04	1.375-04	13	91	3.806+01	8.670+07	3.138-05	1.180-05
12	102	3.726+01	1.538+07	5.335-06	1.963-06	13	93	3.786+01	1.440+08	3.096-05	1.158-05
12	115	3.633+01	2.565+11	8.459-02	3.035-02	13	102	3.762+01	1.295+06	4.581-07	1.702-07
12	116	3.632+01	1.336+09	4.402-04	1.579-04	13	115	3.667+01	1.758+09	5.907-04	2.139-04
12	118	3.619+01	7.866+10	1.545-02	5.523-03	13	116	3.666+01	2.691+11	9.038-02	3.273-02
12	128	3.505+01	3.825+05	2.348-08	8.128-09	13	118	3.654+01	5.070+10	1.015-02	3.662-03
12	129	3.503+01	2.055+07	3.782-06	1.309-06	13	128	3.537+01	2.759+08	1.725-05	6.026-06
12	130	3.494+01	6.486+05	1.979-07	6.828-08	13	129	3.535+01	3.979+07	7.456-06	2.603-06
12	131	3.488+01	5.359+07	9.776-06	3.368-06	13	130	3.526+01	9.286+06	2.885-06	1.005-06

Table 2. Transition energies ($\AA$), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric dipole (E1) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
13	131	3.520+01	8.311+07	1.544-05	5.367-06	14	116	3.671+01	3.080+10	6.220-03	3.758-03
13	136	3.306+01	6.080+07	1.660-05	5.421-06	14	117	3.669+01	3.111+11	8.789-02	5.307-02
13	142	2.746+01	3.537+08	1.332-05	3.612-06	14	118	3.658+01	8.449+09	1.017-03	6.123-04
13	143	2.745+01	4.942+07	5.583-06	1.514-06	14	124	3.625+01	6.020+06	1.661-06	9.910-07
13	144	2.742+01	3.804+07	7.148-06	1.936-06	14	129	3.539+01	2.932+07	3.304-06	1.925-06
13	145	2.740+01	7.107+06	8.002-07	2.166-07	14	130	3.530+01	4.062+07	7.588-06	4.409-06
13	150	2.674+01	4.016+07	7.176-06	1.896-06	14	131	3.524+01	7.647+04	8.541-09	4.954-09
14	17	4.489+02	2.820+07	5.112-04	3.778-03	14	136	3.310+01	7.348+07	1.207-05	6.573-06
14	18	4.206+02	4.022+07	1.066-03	7.383-03	14	137	3.309+01	2.803+08	6.443-05	3.510-05
14	20	4.077+02	4.200+06	1.465-04	9.836-04	14	139	3.308+01	4.625+08	1.062-04	5.782-05
14	21	3.853+02	1.888+03	4.201-08	2.665-07	14	143	2.748+01	1.188+08	8.065-06	3.648-06
14	22	3.726+02	7.913+06	2.306-04	1.415-03	14	144	2.745+01	1.393+07	1.573-06	7.106-07
14	23	3.259+02	7.222+07	6.901-04	3.702-03	14	145	2.743+01	1.580+08	1.069-05	4.826-06
14	24	2.883+02	1.367+09	1.704-02	8.086-02	14	150	2.677+01	4.851+07	5.211-06	2.296-06
14	25	2.830+02	1.256+09	1.508-02	7.024-02	14	151	2.677+01	1.877+08	2.823-05	1.244-05
14	26	2.794+02	1.195+10	1.958-01	9.008-01	14	153	2.676+01	3.387+08	5.090-05	2.242-05
14	27	2.386+02	1.849+08	9.467-04	3.718-03	15	17	1.007+03	6.534+02	2.978-07	9.871-07
14	31	1.030+02	1.204+09	1.148-03	1.946-03	15	23	5.453+02	3.986+07	5.330-03	9.568-03
14	32	1.010+02	1.944+10	2.974-02	4.946-02	15	27	3.381+02	3.274+09	1.683-01	1.874-01
14	33	9.945+01	3.220+10	2.865-02	4.690-02	15	31	1.180+02	3.889+09	2.434-02	9.450-03
14	38	6.140+01	1.176+09	6.644-04	6.714-04	15	33	1.134+02	1.558+10	9.008-02	3.362-02
14	39	6.120+01	6.112+07	2.059-05	2.075-05	15	39	6.620+01	2.720+10	5.361-02	1.168-02
14	42	5.768+01	2.020+11	6.047-02	5.741-02	15	42	6.210+01	3.672+10	6.370-02	1.302-02
14	52	5.352+01	1.774+09	4.570-04	4.026-04	15	52	5.730+01	2.471+08	3.648-04	6.883-05
14	54	5.335+01	3.448+09	1.471-03	1.292-03	15	59	5.613+01	7.240+10	1.026-01	1.896-02
14	55	5.332+01	4.930+08	2.942-04	2.582-04	15	71	5.331+01	2.346+11	2.998-01	5.261-02
14	57	5.318+01	4.505+08	1.910-04	1.672-04	15	77	4.202+01	1.593+10	1.265-02	1.750-03
14	58	5.309+01	4.176+07	2.470-05	2.159-05	15	85	4.031+01	2.415+10	1.765-02	2.342-03
14	59	5.249+01	6.062+08	1.503-04	1.298-04	15	87	4.007+01	1.253+08	9.051-05	1.194-05
14	68	5.059+01	7.880+10	3.024-02	2.518-02	15	93	3.977+01	7.428+10	5.284-02	6.918-03
14	69	5.054+01	5.897+10	2.258-02	1.879-02	15	118	3.831+01	1.426+11	9.412-02	1.187-02
14	70	5.048+01	5.526+11	2.955-01	2.455-01	15	129	3.701+01	4.455+08	2.744-04	3.344-05
14	71	5.002+01	1.324+10	2.980-03	2.453-03	15	131	3.684+01	1.586+09	9.684-04	1.175-04
14	76	3.999+01	5.559+08	1.333-04	8.773-05	15	143	2.844+01	2.477+06	9.011-07	8.437-08
14	77	3.995+01	1.840+08	2.641-05	1.737-05	15	145	2.839+01	4.621+07	1.675-05	1.565-06
14	85	3.840+01	8.980+10	1.191-02	7.530-03	16	28	2.054+02	3.153+05	5.982-06	4.045-06
14	87	3.819+01	1.485+09	1.948-04	1.225-04	16	34	8.983+01	5.438+09	1.974-02	5.836-03
14	89	3.815+01	1.340+09	2.922-04	1.835-04	16	40	6.598+01	1.614+10	3.160-02	6.863-03
14	90	3.814+01	1.283+09	3.918-04	2.460-04	16	45	6.529+01	1.984+08	3.805-04	8.178-05
14	91	3.811+01	5.504+08	1.198-04	7.516-05	16	48	6.162+01	1.370+08	2.339-04	4.745-05
14	92	3.808+01	4.387+05	1.335-07	8.372-08	16	49	6.126+01	4.051+08	6.837-04	1.379-04
14	93	3.791+01	2.237+08	2.892-05	1.805-05	16	60	5.809+01	6.214+11	9.431-01	1.804-01
14	102	3.767+01	1.894+06	4.029-07	2.498-07	16	78	4.281+01	5.648+09	4.655-03	6.560-04
14	103	3.766+01	2.139+07	6.367-06	3.948-06	16	81	4.266+01	9.107+07	7.453-05	1.047-05
14	106	3.765+01	3.321+05	9.879-08	6.121-08	16	94	4.105+01	2.214+11	1.678-01	2.267-02
14	115	3.672+01	4.694+10	9.487-03	5.733-03	16	110	4.096+01	5.836+09	4.404-03	5.939-04

Table 2. Transition energies ($\AA$), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric dipole (E1) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
16	111	4.090+01	1.268+08	9.544-05	1.285-05	18	28	2.155+02	4.185+06	1.748-05	6.202-05
16	114	3.994+01	5.122+07	3.674-05	4.831-06	18	34	9.171+01	4.012+09	3.036-03	4.583-03
16	132	3.643+01	2.823+09	1.685-03	2.021-04	18	35	9.162+01	1.102+10	1.387-02	2.092-02
16	140	2.967+01	2.562+07	1.014-05	9.905-07	18	36	9.144+01	3.159+09	5.545-03	8.346-03
16	146	2.865+01	6.210+08	2.293-04	2.163-05	18	37	8.812+01	4.333+09	5.044-03	7.317-03
17	28	2.088+02	1.420+06	9.275-06	1.912-05	18	40	6.699+01	2.471+10	9.974-03	1.100-02
17	29	1.878+02	2.275+06	4.011-06	7.441-06	18	43	6.667+01	4.724+09	3.148-03	3.454-03
17	34	9.047+01	1.152+10	1.413-02	1.263-02	18	44	6.643+01	7.672+08	7.105-04	7.769-04
17	35	9.038+01	3.692+09	7.534-03	6.725-03	18	45	6.628+01	1.106+10	4.370-03	4.768-03
17	37	8.697+01	1.020+08	1.927-04	1.655-04	18	46	6.607+01	2.146+10	1.405-02	1.528-02
17	40	6.632+01	3.694+10	2.436-02	1.595-02	18	48	6.250+01	5.498+07	1.932-05	1.987-05
17	43	6.600+01	2.134+09	2.323-03	1.514-03	18	49	6.213+01	2.011+09	6.982-04	7.140-04
17	45	6.563+01	1.593+07	1.028-05	6.666-06	18	50	6.206+01	1.966+08	1.135-04	1.160-04
17	46	6.543+01	4.299+09	4.598-03	2.971-03	18	60	5.887+01	6.439+10	2.008-02	1.946-02
17	47	6.410+01	5.121+09	1.051-03	6.657-04	18	63	5.883+01	4.074+11	2.114-01	2.047-01
17	48	6.192+01	4.446+06	2.555-06	1.562-06	18	64	5.874+01	8.799+11	6.372-01	6.161-01
17	49	6.155+01	1.216+07	6.907-06	4.199-06	18	65	5.872+01	2.244+10	1.160-02	1.121-02
17	50	6.148+01	4.342+08	4.101-04	2.491-04	18	66	5.872+01	3.374+10	2.441-02	2.359-02
17	56	6.048+01	1.096+09	2.003-04	1.196-04	18	72	5.548+01	4.204+07	2.716-05	2.481-05
17	60	5.836+01	5.870+11	2.997-01	1.727-01	18	74	5.542+01	6.035+10	3.891-02	3.550-02
17	63	5.832+01	6.483+11	5.509-01	3.173-01	18	75	5.542+01	5.502+09	2.533-03	2.311-03
17	65	5.821+01	8.657+10	7.329-02	4.214-02	18	78	4.323+01	8.648+09	1.454-03	1.034-03
17	75	5.496+01	2.683+10	2.025-02	1.099-02	18	79	4.316+01	1.837+09	5.129-04	3.643-04
17	78	4.295+01	1.310+10	3.622-03	1.536-03	18	80	4.311+01	2.181+08	8.507-05	6.036-05
17	79	4.288+01	7.025+08	3.228-04	1.367-04	18	81	4.308+01	3.847+09	6.421-04	4.553-04
17	81	4.280+01	2.707+07	7.435-06	3.143-06	18	82	4.303+01	8.360+09	2.321-03	1.644-03
17	82	4.276+01	1.631+09	7.451-04	3.146-04	18	94	4.144+01	2.252+10	3.478-03	2.372-03
17	83	4.243+01	1.659+09	1.493-04	6.254-05	18	95	4.142+01	1.518+11	3.904-02	2.662-02
17	94	4.118+01	2.074+11	5.271-02	2.144-02	18	98	4.139+01	3.335+11	1.199-01	8.171-02
17	95	4.117+01	2.495+11	1.057-01	4.296-02	18	99	4.138+01	3.459+09	8.878-04	6.047-04
17	99	4.112+01	1.892+10	7.994-03	3.247-03	18	100	4.138+01	1.037+09	3.726-04	2.538-04
17	110	4.110+01	5.989+09	1.516-03	6.154-04	18	110	4.135+01	3.314+08	5.098-05	3.470-05
17	111	4.103+01	5.541+08	1.399-04	5.670-05	18	111	4.129+01	1.054+09	1.616-04	1.098-04
17	112	4.100+01	5.163+08	2.169-04	8.781-05	18	112	4.125+01	1.196+09	3.051-04	2.072-04
17	113	4.083+01	5.579+08	4.649-05	1.875-05	18	114	4.030+01	1.059+08	1.548-05	1.027-05
17	114	4.006+01	1.252+08	3.012-05	1.192-05	18	120	3.972+01	1.684+08	5.577-05	3.646-05
17	119	3.979+01	1.041+06	8.240-08	3.239-08	18	121	3.971+01	2.308+10	7.641-03	4.995-03
17	123	3.947+01	1.026+10	3.993-03	1.556-03	18	123	3.971+01	2.101+09	4.965-04	3.245-04
17	132	3.654+01	2.120+09	4.242-04	1.531-04	18	132	3.674+01	1.567+08	1.903-05	1.151-05
17	133	3.653+01	3.477+09	1.159-03	4.183-04	18	133	3.673+01	1.079+09	2.182-04	1.320-04
17	135	3.633+01	1.239+07	4.087-06	1.466-06	18	134	3.672+01	3.725+09	1.054-03	6.371-04
17	140	2.974+01	7.473+07	9.906-06	2.909-06	18	135	3.653+01	1.861+07	3.723-06	2.238-06
17	141	2.966+01	2.565+06	1.127-07	3.302-08	18	140	2.987+01	1.105+08	8.867-06	4.359-06
17	146	2.872+01	4.223+08	5.221-05	1.481-05	18	146	2.884+01	4.370+07	3.269-06	1.552-06
17	147	2.871+01	7.719+08	1.590-04	4.510-05	18	147	2.884+01	1.725+08	2.151-05	1.021-05
17	149	2.865+01	3.750+06	7.692-07	2.177-07	18	148	2.883+01	8.178+08	1.427-04	6.774-05

Table 2. Transition energies ($\AA$), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric dipole (E1) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
18	149	2.878+01	2.442+06	3.032-07	1.436-07	20	82	4.317+01	2.236+08	4.462-05	4.440-05
18	154	2.856+01	1.010+04	1.729-09	8.126-10	20	95	4.155+01	4.571+09	8.451-04	8.092-04
19	36	9.151+01	6.864+10	6.703-02	1.817-01	20	97	4.154+01	4.051+11	1.348-01	1.290-01
19	44	6.646+01	5.525+10	2.846-02	5.604-02	20	98	4.152+01	1.895+10	4.897-03	4.686-03
19	61	5.890+01	4.747+10	2.469-02	4.309-02	20	99	4.151+01	5.689+09	1.050-03	1.004-03
19	62	5.890+01	1.264+12	8.035-01	1.402-00	20	100	4.151+01	7.656+10	1.977-02	1.891-02
19	64	5.877+01	2.024+10	8.149-03	1.419-02	20	101	4.150+01	1.428+10	4.741-03	4.534-03
19	66	5.874+01	2.266+09	9.117-04	1.587-03	20	112	4.138+01	1.653+08	3.031-05	2.891-05
19	67	5.872+01	1.682+11	8.696-02	1.513-01	20	120	3.984+01	1.194+08	2.840-05	2.607-05
19	72	5.551+01	1.252+07	4.497-06	7.397-06	20	121	3.983+01	4.766+08	1.134-04	1.041-04
19	73	5.548+01	2.465+08	1.137-04	1.869-04	20	122	3.983+01	5.926+09	1.812-03	1.663-03
19	74	5.545+01	1.258+08	4.511-05	7.412-05	20	123	3.983+01	6.616+07	1.124-05	1.031-05
19	80	4.312+01	2.094+10	4.541-03	5.802-03	20	133	3.683+01	4.573+08	6.644-05	5.640-05
19	96	4.143+01	4.602+11	1.447-01	1.777-01	20	134	3.682+01	1.899+07	3.859-06	3.275-06
19	97	4.143+01	1.867+10	4.806-03	5.899-03	20	135	3.663+01	1.921+08	2.760-05	2.330-05
19	98	4.141+01	5.532+09	1.106-03	1.357-03	20	147	2.890+01	2.812+09	2.515-04	1.675-04
19	100	4.139+01	1.778+09	3.552-04	4.357-04	20	148	2.890+01	2.413+08	3.020-05	2.011-05
19	101	4.139+01	6.311+10	1.620-02	1.987-02	20	149	2.884+01	7.928+08	7.061-05	4.693-05
19	120	3.973+01	2.462+06	4.531-07	5.334-07	20	154	2.862+01	6.561+05	8.058-08	5.315-08
19	121	3.973+01	4.898+06	9.013-07	1.061-06	20	155	2.862+01	1.175+07	1.855-06	1.223-06
19	122	3.972+01	8.854+07	2.095-05	2.465-05	20	157	2.862+01	3.884+02	6.131-11	4.044-11
19	134	3.673+01	6.332+08	9.961-05	1.084-04	21	28	2.261+02	7.020+04	3.228-07	1.201-06
19	148	2.884+01	4.158+09	4.033-04	3.446-04	21	34	9.358+01	4.150+10	3.269-02	5.035-02
19	154	2.857+01	1.451+04	1.381-09	1.169-09	21	35	9.348+01	6.258+08	8.199-04	1.262-03
19	155	2.857+01	4.362+05	5.336-08	4.516-08	21	36	9.330+01	7.395+08	1.351-03	2.075-03
19	156	2.857+01	1.122+07	1.678-06	1.420-06	21	37	8.985+01	1.622+10	1.963-02	2.903-02
19	157	2.857+01	3.162+05	3.867-08	3.273-08	21	40	6.798+01	3.400+09	1.413-03	1.581-03
20	35	9.225+01	5.348+10	4.874-02	1.036-01	21	43	6.765+01	1.822+10	1.250-02	1.392-02
20	36	9.207+01	2.820+08	3.585-04	7.606-04	21	44	6.740+01	7.212+08	6.876-04	7.629-04
20	37	8.871+01	2.038+10	1.717-02	3.511-02	21	45	6.725+01	4.811+10	1.957-02	2.166-02
20	43	6.700+01	5.298+10	2.547-02	3.932-02	21	46	6.704+01	4.627+07	3.117-05	3.440-05
20	44	6.676+01	7.324+09	4.893-03	7.528-03	21	48	6.336+01	4.975+08	1.797-04	1.874-04
20	46	6.640+01	5.227+08	2.468-04	3.777-04	21	49	6.298+01	1.861+07	6.639-06	6.882-06
20	50	6.235+01	2.535+08	1.055-04	1.516-04	21	50	6.291+01	5.630+07	3.340-05	3.458-05
20	61	5.913+01	1.102+12	7.431-01	1.013-00	21	60	5.964+01	2.730+10	8.734-03	8.574-03
20	63	5.909+01	1.241+10	4.641-03	6.320-03	21	63	5.960+01	7.261+09	3.866-03	3.793-03
20	64	5.900+01	7.858+10	4.101-02	5.576-02	21	64	5.950+01	6.633+09	4.929-03	4.827-03
20	65	5.898+01	1.974+10	7.354-03	9.997-03	21	65	5.948+01	2.709+11	1.437-01	1.407-01
20	66	5.897+01	1.729+11	9.013-02	1.225-01	21	66	5.947+01	1.028+12	7.632-01	7.472-01
20	67	5.895+01	4.827+10	3.234-02	4.393-02	21	72	5.616+01	2.126+10	1.407-02	1.301-02
20	72	5.571+01	2.089+08	9.720-05	1.248-04	21	74	5.610+01	1.108+06	7.320-07	6.760-07
20	73	5.569+01	1.514+10	9.051-03	1.161-02	21	75	5.610+01	3.191+09	1.505-03	1.390-03
20	74	5.565+01	1.539+09	7.147-04	9.166-04	21	78	4.364+01	1.251+09	2.144-04	1.540-04
20	75	5.565+01	5.730+05	1.901-07	2.437-07	21	79	4.357+01	7.135+09	2.030-03	1.456-03
20	79	4.330+01	2.136+10	4.288-03	4.279-03	21	80	4.352+01	2.866+08	1.139-04	8.159-05
20	80	4.325+01	2.820+09	7.908-04	7.881-04	21	81	4.348+01	1.950+10	3.316-03	2.374-03

Table 2. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric dipole (E1) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
21	82	4.344+01	7.260+06	2.054-06	1.469-06	22	99	4.191+01	4.522+08	8.505-05	8.214-05
21	94	4.181+01	7.741+09	1.217-03	8.379-04	22	100	4.191+01	5.891+05	1.551-07	1.498-07
21	95	4.180+01	6.468+09	1.694-03	1.166-03	22	101	4.190+01	3.875+11	1.312-01	1.267-01
21	98	4.177+01	1.261+09	4.616-04	3.173-04	22	112	4.178+01	1.616+08	3.021-05	2.909-05
21	99	4.176+01	9.799+10	2.561-02	1.760-02	22	120	4.021+01	1.038+08	2.517-05	2.332-05
21	100	4.175+01	3.794+11	1.388-01	9.542-02	22	121	4.020+01	1.402+08	3.397-05	3.147-05
21	110	4.173+01	8.506+08	1.332-04	9.150-05	22	122	4.020+01	8.346+08	2.600-04	2.409-04
21	111	4.166+01	6.744+07	1.053-05	7.222-06	22	123	4.019+01	6.203+06	1.073-06	9.942-07
21	112	4.163+01	1.246+07	3.238-06	2.219-06	22	133	3.715+01	2.176+07	3.216-06	2.753-06
21	114	4.066+01	3.925+05	5.837-08	3.907-08	22	134	3.714+01	1.828+07	3.780-06	3.235-06
21	120	4.007+01	8.885+09	2.994-03	1.974-03	22	135	3.694+01	2.707+08	3.956-05	3.368-05
21	121	4.006+01	3.930+07	1.324-05	8.730-06	22	147	2.909+01	3.966+07	3.595-06	2.411-06
21	123	4.005+01	1.113+09	2.678-04	1.765-04	22	148	2.909+01	1.187+07	1.506-06	1.010-06
21	132	3.703+01	2.729+08	3.367-05	2.052-05	22	149	2.903+01	1.199+09	1.082-04	7.240-05
21	133	3.703+01	1.475+07	3.032-06	1.848-06	22	154	2.881+01	1.587+04	1.975-09	1.311-09
21	134	3.701+01	1.605+07	4.614-06	2.811-06	22	155	2.881+01	1.305+06	2.088-07	1.386-07
21	135	3.682+01	3.265+07	6.636-06	4.022-06	22	157	2.881+01	4.686+06	7.497-07	4.978-07
21	140	3.006+01	5.256+05	4.273-08	2.115-08	23	28	2.532+02	7.428+04	7.139-07	1.785-06
21	146	2.902+01	1.566+09	1.187-04	5.669-05	23	29	2.230+02	1.519+08	3.776-04	8.317-04
21	147	2.902+01	2.125+08	2.683-05	1.282-05	23	34	9.792+01	1.414+10	2.033-02	1.966-02
21	148	2.902+01	1.620+05	2.862-08	1.367-08	23	35	9.781+01	5.405+09	1.292-02	1.248-02
21	149	2.896+01	6.029+06	7.580-07	3.613-07	23	37	9.383+01	2.196+09	4.832-03	4.478-03
21	154	2.874+01	3.943+06	6.834-07	3.233-07	23	40	7.024+01	7.926+08	5.862-04	4.067-04
22	35	9.426+01	7.309+09	6.954-03	1.511-02	23	43	6.988+01	1.084+09	1.322-03	9.128-04
22	36	9.407+01	1.659+10	2.201-02	4.772-02	23	45	6.946+01	2.414+10	1.746-02	1.198-02
22	37	9.056+01	2.831+10	2.487-02	5.190-02	23	46	6.923+01	1.770+07	2.119-05	1.449-05
22	43	6.805+01	5.530+08	2.743-04	4.301-04	23	47	6.775+01	7.521+10	1.725-02	1.154-02
22	44	6.780+01	1.093+10	7.533-03	1.177-02	23	48	6.532+01	1.726+09	1.104-03	7.119-04
22	46	6.744+01	5.483+10	2.670-02	4.149-02	23	49	6.491+01	6.308+08	3.985-04	2.554-04
22	50	6.326+01	3.433+07	1.471-05	2.144-05	23	50	6.483+01	5.584+08	5.865-04	3.756-04
22	61	5.995+01	9.930+10	6.880-02	9.505-02	23	56	6.372+01	2.690+09	5.459-04	3.435-04
22	63	5.991+01	3.197+10	1.229-02	1.697-02	23	60	6.137+01	4.012+10	2.265-02	1.373-02
22	64	5.981+01	2.742+11	1.471-01	2.027-01	23	63	6.133+01	1.085+11	1.020-01	6.176-02
22	65	5.980+01	1.819+09	6.964-04	9.596-04	23	65	6.121+01	6.879+11	6.439-01	3.892-01
22	66	5.979+01	4.789+09	2.567-03	3.536-03	23	75	5.763+01	2.357+11	1.955-01	1.113-01
22	67	5.977+01	1.037+12	7.142-01	9.836-01	23	78	4.456+01	3.124+08	9.300-05	4.093-05
22	72	5.644+01	2.028+08	9.686-05	1.260-04	23	79	4.448+01	4.002+08	1.979-04	8.694-05
22	73	5.641+01	1.483+09	9.096-04	1.182-03	23	81	4.440+01	1.211+10	3.579-03	1.569-03
22	74	5.638+01	4.456+08	2.123-04	2.759-04	23	82	4.435+01	1.556+07	7.646-06	3.349-06
22	75	5.638+01	6.960+07	2.369-05	3.077-05	23	83	4.400+01	3.479+10	3.365-03	1.462-03
22	79	4.374+01	3.491+08	7.151-05	7.207-05	23	94	4.266+01	1.451+10	3.958-03	1.667-03
22	80	4.368+01	4.279+09	1.224-03	1.232-03	23	95	4.264+01	2.358+10	1.071-02	4.511-03
22	82	4.361+01	2.310+10	4.704-03	4.727-03	23	99	4.260+01	2.712+11	1.229-01	5.172-02
22	95	4.195+01	1.100+10	2.072-03	2.004-03	23	110	4.257+01	4.622+05	1.256-07	5.278-08
22	97	4.195+01	3.174+10	1.077-02	1.041-02	23	111	4.250+01	2.044+08	5.534-05	2.323-05
22	98	4.192+01	1.030+11	2.715-02	2.623-02	23	112	4.246+01	1.013+08	4.566-05	1.915-05

Table 2. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric dipole (E1) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
23	113	4.228+01	2.125+09	1.899-04	7.930-05	24	114	4.216+01	2.451+04	3.918-09	2.719-09
23	114	4.146+01	1.847+06	4.760-07	1.949-07	24	120	4.152+01	4.275+11	1.547-01	1.057-01
23	119	4.117+01	4.275+08	3.622-05	1.473-05	24	121	4.151+01	2.051+09	7.418-04	5.069-04
23	123	4.083+01	8.567+10	3.568-02	1.439-02	24	123	4.150+01	3.855+10	9.955-03	6.801-03
23	132	3.769+01	3.226+07	6.872-06	2.558-06	24	132	3.827+01	3.059+08	4.031-05	2.539-05
23	133	3.769+01	3.222+08	1.144-04	4.257-05	24	133	3.826+01	1.415+08	3.107-05	1.957-05
23	135	3.747+01	1.661+08	5.827-05	2.157-05	24	134	3.825+01	5.912+06	1.815-06	1.143-06
23	140	3.050+01	5.583+06	7.785-07	2.345-07	24	135	3.804+01	1.875+07	4.069-06	2.548-06
23	141	3.042+01	1.687+08	7.799-06	2.343-06	24	140	3.087+01	4.642+05	3.980-08	2.023-08
23	146	2.943+01	3.992+07	5.183-06	1.506-06	24	146	2.978+01	2.698+09	2.152-04	1.055-04
23	147	2.942+01	3.630+07	7.852-06	2.282-06	24	147	2.977+01	3.257+08	4.330-05	2.122-05
23	149	2.936+01	7.907+07	1.703-05	4.939-06	24	148	2.977+01	1.771+05	3.294-08	1.614-08
24	28	2.817+02	1.255+03	8.959-09	4.155-08	24	149	2.971+01	1.362+01	1.802-12	8.815-13
24	34	1.019+02	2.465+10	2.303-02	3.863-02	24	154	2.948+01	6.960+06	1.269-06	6.159-07
24	35	1.018+02	1.203+10	1.869-02	3.131-02	25	28	2.870+02	8.427+05	6.243-06	2.949-05
24	36	1.016+02	4.812+08	1.042-03	1.742-03	25	34	1.026+02	9.593+08	9.081-04	1.534-03
24	37	9.750+01	7.859+09	1.120-02	1.797-02	25	35	1.025+02	5.862+09	9.228-03	1.557-02
24	40	7.227+01	6.716+07	3.155-05	3.753-05	25	36	1.022+02	6.475+09	1.421-02	2.392-02
24	43	7.189+01	6.657+08	5.159-04	6.105-04	25	37	9.812+01	8.375+09	1.209-02	1.952-02
24	44	7.161+01	1.826+07	1.966-05	2.318-05	25	40	7.261+01	3.782+08	1.793-04	2.144-04
24	45	7.145+01	1.080+09	4.959-04	5.832-04	25	43	7.223+01	2.871+08	2.245-04	2.670-04
24	46	7.121+01	3.304+07	2.511-05	2.943-05	25	44	7.195+01	4.424+08	4.807-04	5.693-04
24	48	6.707+01	6.613+10	2.676-02	2.954-02	25	45	7.178+01	4.139+08	1.918-04	2.266-04
24	49	6.664+01	3.266+09	1.305-03	1.431-03	25	46	7.154+01	1.305+09	1.001-03	1.179-03
24	50	6.656+01	5.610+09	3.726-03	4.083-03	25	48	6.736+01	4.468+08	1.824-04	2.022-04
24	60	6.291+01	8.463+06	3.013-06	3.120-06	25	49	6.693+01	7.006+10	2.823-02	3.111-02
24	63	6.287+01	1.517+08	8.989-05	9.302-05	25	50	6.685+01	6.616+09	4.433-03	4.878-03
24	64	6.276+01	1.098+08	9.077-05	9.378-05	25	60	6.317+01	3.924+09	1.408-03	1.464-03
24	65	6.274+01	7.956+09	4.695-03	4.849-03	25	63	6.313+01	2.421+10	1.446-02	1.503-02
24	66	6.273+01	1.753+10	1.448-02	1.495-02	25	64	6.302+01	3.157+10	2.631-02	2.729-02
24	72	5.906+01	1.172+12	8.583-01	8.343-01	25	65	6.300+01	5.237+08	3.116-04	3.232-04
24	74	5.899+01	8.996+07	6.570-05	6.379-05	25	66	6.299+01	1.348+09	1.123-03	1.164-03
24	75	5.899+01	1.031+11	5.380-02	5.224-02	25	72	5.928+01	3.435+09	2.534-03	2.473-03
24	78	4.537+01	2.328+07	4.311-06	3.220-06	25	74	5.922+01	1.156+12	8.506-01	8.291-01
24	79	4.529+01	3.034+08	9.330-05	6.955-05	25	75	5.921+01	9.421+10	4.952-02	4.827-02
24	80	4.524+01	7.442+06	3.196-06	2.380-06	25	78	4.550+01	5.425+08	1.010-04	7.569-05
24	81	4.520+01	7.189+08	1.321-04	9.831-05	25	79	4.542+01	1.013+08	3.133-05	2.343-05
24	82	4.515+01	8.689+06	2.656-06	1.974-06	25	80	4.537+01	1.641+08	7.090-05	5.294-05
24	94	4.340+01	1.598+09	2.707-04	1.934-04	25	81	4.533+01	2.538+08	4.692-05	3.501-05
24	95	4.338+01	1.165+07	3.287-06	2.347-06	25	82	4.529+01	5.920+08	1.820-04	1.357-04
24	98	4.335+01	2.280+08	8.992-05	6.416-05	25	94	4.352+01	1.566+09	2.669-04	1.912-04
24	99	4.334+01	2.193+09	6.175-04	4.405-04	25	95	4.350+01	9.513+09	2.699-03	1.933-03
24	100	4.333+01	8.525+09	3.360-03	2.397-03	25	98	4.347+01	1.468+10	5.823-03	4.167-03
24	110	4.330+01	2.230+10	3.762-03	2.682-03	25	99	4.346+01	8.729+07	2.472-05	1.768-05
24	111	4.324+01	2.739+09	4.605-04	3.277-04	25	100	4.346+01	5.208+07	2.064-05	1.476-05
24	112	4.320+01	2.203+09	6.162-04	4.381-04	25	110	4.343+01	1.544+09	2.618-04	1.872-04

Table 2. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric dipole (E1) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
25	111	4.336+01	2.554+10	4.319-03	3.082-03	26	123	4.169+01	2.138+09	3.980-04	3.824-04
25	112	4.332+01	1.878+09	5.285-04	3.768-04	26	133	3.843+01	1.036+08	1.638-05	1.450-05
25	114	4.227+01	2.990+07	4.806-06	3.344-06	26	134	3.841+01	9.467+07	2.094-05	1.854-05
25	120	4.163+01	1.456+07	5.295-06	3.629-06	26	135	3.821+01	2.676+08	4.183-05	3.683-05
25	121	4.162+01	4.254+11	1.547-01	1.060-01	26	147	2.987+01	1.101+09	1.052-04	7.241-05
25	123	4.162+01	3.466+10	9.000-03	6.165-03	26	148	2.987+01	9.950+07	1.331-05	9.160-06
25	132	3.837+01	3.824+07	5.063-06	3.198-06	26	149	2.981+01	1.354+09	1.288-04	8.848-05
25	133	3.836+01	2.861+08	6.312-05	3.986-05	26	154	2.957+01	3.117+05	4.087-08	2.785-08
25	134	3.835+01	2.444+09	7.542-04	4.761-04	26	155	2.957+01	1.257+04	2.119-09	1.444-09
25	135	3.814+01	1.456+07	3.175-06	1.993-06	26	157	2.957+01	1.006+07	1.696-06	1.156-06
25	140	3.094+01	6.636+07	5.713-06	2.909-06	27	28	3.538+02	6.802+03	1.276-07	4.461-07
25	146	2.983+01	8.407+07	6.732-06	3.306-06	27	29	2.976+02	3.473+08	1.537-03	4.518-03
25	147	2.983+01	8.495+07	1.133-05	5.566-06	27	34	1.100+02	2.035+09	3.693-03	4.013-03
25	148	2.983+01	4.254+08	7.944-05	3.900-05	27	35	1.099+02	1.319+09	3.978-03	4.317-03
25	149	2.977+01	2.410+05	3.202-08	1.569-08	27	37	1.049+02	4.798+09	1.319-02	1.366-02
25	154	2.953+01	7.277+04	1.332-08	6.477-09	27	40	7.625+01	2.192+08	1.911-04	1.439-04
26	35	1.029+02	6.519+09	7.399-03	1.755-02	27	43	7.584+01	7.418+07	1.066-04	7.984-05
26	36	1.027+02	1.462+10	2.313-02	5.476-02	27	45	7.534+01	9.258+09	7.878-03	5.862-03
26	37	9.856+01	2.350+10	2.445-02	5.552-02	27	46	7.507+01	3.043+06	4.285-06	3.177-06
26	43	7.247+01	3.730+08	2.098-04	3.503-04	27	47	7.333+01	1.099+09	2.953-04	2.138-04
26	44	7.219+01	6.262+08	4.892-04	8.137-04	27	48	7.049+01	1.804+10	1.343-02	9.353-03
26	46	7.177+01	1.724+08	9.507-05	1.572-04	27	49	7.002+01	8.827+09	6.487-03	4.486-03
26	50	6.706+01	6.545+10	3.152-02	4.870-02	27	50	6.993+01	2.531+08	3.092-04	2.135-04
26	61	6.335+01	9.285+09	7.183-03	1.049-02	27	56	6.863+01	7.480+10	1.761-02	1.193-02
26	63	6.331+01	1.049+08	4.502-05	6.568-05	27	60	6.591+01	2.397+09	1.561-03	1.016-03
26	64	6.320+01	5.533+09	3.313-03	4.825-03	27	63	6.586+01	7.892+10	8.554-02	5.565-02
26	65	6.318+01	5.257+08	2.247-04	3.272-04	27	65	6.573+01	1.504+11	1.624-01	1.054-01
26	66	6.317+01	1.096+09	6.554-04	9.541-04	27	75	6.161+01	7.906+11	7.500-01	4.564-01
26	67	6.315+01	2.929+09	2.251-03	3.275-03	27	78	4.691+01	3.116+08	1.028-04	4.762-05
26	72	5.944+01	6.636+10	3.515-02	4.815-02	27	79	4.682+01	2.891+07	1.584-05	7.324-06
26	73	5.941+01	1.241+12	8.440-01	1.156-00	27	81	4.673+01	7.561+09	2.475-03	1.142-03
26	74	5.938+01	7.889+10	4.169-02	5.705-02	27	82	4.668+01	8.746+05	4.761-07	2.195-07
26	75	5.937+01	5.812+09	2.194-03	3.002-03	27	83	4.628+01	8.849+09	9.473-04	4.330-04
26	79	4.552+01	3.862+08	8.569-05	8.988-05	27	94	4.480+01	1.917+09	5.768-04	2.552-04
26	80	4.546+01	2.456+08	7.611-05	7.974-05	27	95	4.478+01	2.240+10	1.123-02	4.965-03
26	82	4.538+01	5.536+07	1.221-05	1.277-05	27	99	4.474+01	5.552+10	2.776-02	1.227-02
26	95	4.359+01	6.432+08	1.309-04	1.315-04	27	110	4.470+01	9.751+09	2.921-03	1.290-03
26	97	4.358+01	3.710+09	1.358-03	1.364-03	27	111	4.463+01	3.543+09	1.058-03	4.664-04
26	98	4.356+01	1.225+09	3.485-04	3.498-04	27	112	4.459+01	3.193+08	1.586-04	6.986-05
26	99	4.354+01	9.731+07	1.976-05	1.983-05	27	113	4.439+01	4.129+10	4.066-03	1.783-03
26	100	4.354+01	8.812+08	2.505-04	2.513-04	27	114	4.348+01	3.101+07	8.789-06	3.775-06
26	101	4.354+01	2.035+09	7.434-04	7.459-04	27	119	4.317+01	4.330+09	4.032-04	1.719-04
26	112	4.340+01	2.579+10	5.202-03	5.204-03	27	123	4.279+01	2.897+11	1.325-01	5.601-02
26	120	4.171+01	2.737+10	7.138-03	6.861-03	27	132	3.936+01	4.114+07	9.557-06	3.716-06
26	121	4.170+01	2.603+10	6.788-03	6.523-03	27	133	3.935+01	4.501+08	1.742-04	6.770-05
26	122	4.170+01	4.546+11	1.524-01	1.464-01	27	135	3.912+01	1.213+09	4.638-04	1.792-04

Table 2. Transition energies ($\AA$), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric dipole (E1) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
27	140	3.158+01	7.375+06	1.103-06	3.439-07	29	39	1.138+02	3.876+08	2.257-03	8.457-04
27	141	3.149+01	9.497+08	4.707-05	1.464-05	29	42	1.022+02	2.962+08	1.391-03	4.681-04
27	146	3.043+01	3.128+07	4.343-06	1.305-06	29	52	8.981+01	6.229+06	2.260-05	6.682-06
27	147	3.043+01	8.330+07	1.927-05	5.792-06	29	59	8.697+01	1.007+09	3.425-03	9.807-04
27	149	3.036+01	5.466+08	1.259-04	3.776-05	29	71	8.038+01	1.517+09	4.407-03	1.166-03
28	30	3.763+02	5.646+09	3.995-02	1.485-01	29	77	5.720+01	5.797+08	8.531-04	1.607-04
28	31	3.712+02	5.271+09	1.089-01	3.991-01	29	85	5.409+01	5.414+08	7.123-04	1.268-04
28	32	3.472+02	7.275+09	2.191-01	7.512-01	29	87	5.366+01	3.350+05	4.338-07	7.664-08
28	33	3.293+02	9.084+08	1.476-02	4.801-02	29	93	5.312+01	1.261+09	1.600-03	2.799-04
28	38	1.079+02	1.956+07	5.689-05	6.061-05	29	118	5.054+01	2.045+09	2.350-03	3.910-04
28	39	1.073+02	1.226+07	2.116-05	2.242-05	29	129	4.831+01	3.415+10	3.584-02	5.699-03
28	41	9.716+01	8.119+07	3.830-05	3.676-05	29	131	4.802+01	2.087+11	2.164-01	3.420-02
28	42	9.691+01	4.446+07	6.260-05	5.992-05	29	143	3.467+01	2.174+10	1.175-02	1.341-03
28	51	8.597+01	1.957+09	7.226-04	6.135-04	29	145	3.459+01	1.356+11	7.299-02	8.313-03
28	52	8.571+01	1.721+09	1.895-03	1.604-03	30	34	2.773+02	7.213+09	2.495-01	2.278-01
28	54	8.528+01	1.262+09	2.293-03	1.931-03	30	40	1.311+02	5.322+06	4.112-05	1.774-05
28	57	8.484+01	1.707+07	3.070-05	2.572-05	30	45	1.284+02	3.245+06	2.406-05	1.017-05
28	59	8.311+01	1.410+08	1.460-04	1.199-04	30	48	1.149+02	4.127+07	2.451-04	9.270-05
28	68	7.844+01	2.486+07	3.821-05	2.961-05	30	49	1.137+02	1.407+08	8.174-04	3.059-04
28	69	7.832+01	1.204+09	1.845-03	1.427-03	30	60	1.032+02	2.170+09	1.040-02	3.534-03
28	71	7.707+01	2.668+08	2.376-04	1.808-04	30	78	6.316+01	4.764+08	8.546-04	1.777-04
28	76	5.559+01	5.156+07	3.982-05	2.186-05	30	81	6.283+01	5.971+03	1.060-08	2.193-09
28	77	5.551+01	2.047+07	9.454-06	5.183-06	30	94	5.940+01	1.599+09	2.537-03	4.961-04
28	84	5.260+01	1.089+08	1.505-05	7.821-06	30	110	5.922+01	2.247+08	3.544-04	6.911-05
28	85	5.257+01	6.079+07	2.519-05	1.308-05	30	111	5.910+01	3.283+08	5.157-04	1.003-04
28	86	5.222+01	5.185+08	7.064-05	3.643-05	30	114	5.710+01	4.141+10	6.072-02	1.141-02
28	87	5.217+01	4.432+08	1.808-04	9.315-05	30	132	5.020+01	3.044+11	3.450-01	5.702-02
28	89	5.209+01	3.188+08	2.161-04	1.112-04	30	140	3.819+01	1.897+10	1.245-02	1.565-03
28	91	5.202+01	6.170+06	4.171-06	2.143-06	30	146	3.653+01	1.736+11	1.042-01	1.253-02
28	93	5.165+01	4.392+07	1.757-05	8.961-06	31	34	2.802+02	4.673+09	5.499-02	1.522-01
28	102	5.120+01	2.807+02	1.839-10	9.299-11	31	35	2.793+02	8.815+09	1.718-01	4.740-01
28	115	4.946+01	4.927+06	3.012-06	1.471-06	31	37	2.492+02	1.576+09	2.445-02	6.017-02
28	116	4.944+01	1.661+08	1.014-04	4.953-05	31	40	1.317+02	1.672+06	4.347-06	5.654-06
28	118	4.921+01	1.251+07	4.543-06	2.208-06	31	43	1.304+02	2.242+06	9.533-06	1.228-05
28	128	4.712+01	2.575+11	2.857-02	1.329-02	31	45	1.290+02	4.684+07	1.168-04	1.488-04
28	129	4.709+01	2.217+11	7.369-02	3.427-02	31	46	1.282+02	4.020+07	1.651-04	2.090-04
28	130	4.692+01	2.437+11	1.341-01	6.215-02	31	47	1.232+02	4.306+08	3.266-04	3.975-04
28	131	4.682+01	3.129+10	1.028-02	4.753-03	31	48	1.154+02	4.205+07	8.393-05	9.565-05
28	136	4.311+01	9.322+03	4.328-09	1.843-09	31	49	1.141+02	5.027+07	9.817-05	1.107-04
28	142	3.404+01	1.463+11	8.475-03	2.850-03	31	50	1.139+02	1.054+08	3.416-04	3.842-04
28	143	3.404+01	1.262+11	2.191-02	7.366-03	31	56	1.105+02	1.139+06	6.951-07	7.585-07
28	144	3.399+01	1.400+11	4.042-02	1.357-02	31	60	1.036+02	1.414+09	2.276-03	2.329-03
28	145	3.397+01	1.807+10	3.125-03	1.048-03	31	63	1.035+02	1.253+09	3.353-03	3.428-03
28	150	3.296+01	4.944+03	1.342-09	4.367-10	31	65	1.032+02	5.378+08	1.430-03	1.457-03
29	31	4.629+02	2.964+08	2.856-02	4.352-02	31	75	9.337+01	1.632+09	3.556-03	3.280-03
29	33	3.995+02	3.929+09	2.820-01	3.708-01	31	78	6.330+01	9.370+08	5.629-04	3.519-04

Table 2. Transition energies ($\AA$), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric dipole (E1) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
31	79	6.315+01	4.729+07	4.712-05	2.939-05	32	82	6.363+01	1.730+08	1.050-04	1.100-04
31	81	6.297+01	3.010+07	1.790-05	1.113-05	32	94	6.020+01	5.404+07	1.761-05	1.745-05
31	82	6.288+01	2.904+07	2.869-05	1.782-05	32	95	6.016+01	5.780+08	3.136-04	3.106-04
31	83	6.217+01	6.182+08	1.194-04	7.331-05	32	98	6.010+01	1.313+09	9.956-04	9.849-04
31	94	5.953+01	1.212+09	6.436-04	3.784-04	32	99	6.008+01	8.153+06	4.411-06	4.362-06
31	95	5.949+01	1.164+09	1.029-03	6.048-04	32	100	6.007+01	1.753+07	1.328-05	1.313-05
31	99	5.941+01	2.104+08	1.855-04	1.088-04	32	110	6.001+01	8.253+08	2.674-04	2.642-04
31	110	5.935+01	2.329+08	1.230-04	7.209-05	32	111	5.989+01	5.119+09	1.651-03	1.628-03
31	111	5.922+01	1.470+09	7.729-04	4.521-04	32	112	5.981+01	5.196+07	2.787-05	2.744-05
31	112	5.915+01	3.925+07	3.431-05	2.005-05	32	114	5.784+01	2.135+11	6.423-02	6.115-02
31	113	5.881+01	1.150+08	1.988-05	1.154-05	32	120	5.664+01	2.984+07	2.009-05	1.873-05
31	114	5.722+01	1.115+11	5.475-02	3.094-02	32	121	5.663+01	2.615+09	1.760-03	1.641-03
31	119	5.667+01	3.771+10	6.053-03	3.388-03	32	123	5.661+01	2.627+08	1.262-04	1.176-04
31	123	5.602+01	1.402+09	1.099-03	6.083-04	32	132	5.077+01	1.548+10	3.587-03	2.998-03
31	132	5.029+01	2.044+11	7.751-02	3.850-02	32	133	5.075+01	1.385+11	5.349-02	4.469-02
31	133	5.028+01	3.821+11	2.413-01	1.198-01	32	134	5.073+01	5.532+11	2.988-01	2.495-01
31	135	4.990+01	4.131+10	2.570-02	1.266-02	32	135	5.037+01	4.025+08	1.531-04	1.269-04
31	140	3.825+01	5.111+10	1.121-02	4.234-03	32	140	3.852+01	9.776+10	1.305-02	8.274-03
31	141	3.812+01	1.878+10	1.364-03	5.134-04	32	146	3.683+01	8.715+09	1.063-03	6.446-04
31	146	3.658+01	1.163+11	2.333-02	8.427-03	32	147	3.683+01	7.811+10	1.588-02	9.626-03
31	147	3.657+01	2.186+11	7.305-02	2.639-02	32	148	3.682+01	3.128+11	8.900-02	5.394-02
31	149	3.648+01	2.504+10	8.325-03	2.999-03	32	149	3.673+01	2.621+08	5.300-05	3.204-05
32	34	2.956+02	2.967+08	2.332-03	1.135-02	32	154	3.637+01	7.713+01	2.142-11	1.282-11
32	35	2.946+02	2.700+09	3.514-02	1.704-01	33	34	3.100+02	4.162+08	5.995-03	1.835-02
32	36	2.928+02	1.108+10	1.995-01	9.614-01	33	35	3.089+02	5.520+08	1.316-02	4.015-02
32	37	2.613+02	6.556+06	6.711-05	2.887-04	33	37	2.725+02	1.285+10	2.384-01	6.414-01
32	40	1.350+02	1.273+08	2.087-04	4.637-04	33	40	1.379+02	7.323+05	2.088-06	2.844-06
32	43	1.337+02	8.101+07	2.171-04	4.778-04	33	43	1.366+02	5.311+06	2.475-05	3.338-05
32	44	1.327+02	8.216+07	3.039-04	6.639-04	33	45	1.350+02	2.835+06	7.741-06	1.032-05
32	45	1.322+02	1.444+07	2.269-05	4.936-05	33	46	1.341+02	1.603+07	7.201-05	9.538-05
32	46	1.313+02	1.786+08	4.618-04	9.985-04	33	47	1.286+02	1.822+08	1.506-04	1.914-04
32	48	1.179+02	6.962+04	8.709-08	1.690-07	33	48	1.201+02	3.420+06	7.401-06	8.782-06
32	49	1.166+02	3.165+07	3.871-05	7.432-05	33	49	1.188+02	4.686+06	9.914-06	1.163-05
32	50	1.164+02	9.643+06	1.958-05	3.750-05	33	50	1.185+02	6.175+06	2.168-05	2.538-05
32	60	1.057+02	9.315+07	9.353-05	1.627-04	33	56	1.148+02	1.142+09	7.531-04	8.542-04
32	63	1.055+02	6.455+08	1.078-03	1.872-03	33	60	1.074+02	1.383+08	2.392-04	2.538-04
32	64	1.052+02	1.541+09	3.581-03	6.202-03	33	63	1.073+02	1.402+09	4.033-03	4.273-03
32	65	1.052+02	2.779+07	4.609-05	7.979-05	33	65	1.069+02	1.195+09	3.415-03	3.607-03
32	66	1.052+02	1.030+08	2.389-04	4.135-04	33	75	9.646+01	7.628+08	1.774-03	1.690-03
32	72	9.521+01	5.278+06	1.004-05	1.574-05	33	78	6.471+01	1.251+08	7.854-05	5.019-05
32	74	9.504+01	2.429+09	4.605-03	7.205-03	33	79	6.454+01	1.471+07	1.531-05	9.761-06
32	75	9.503+01	2.392+08	3.238-04	5.065-04	33	81	6.436+01	6.306+06	3.917-06	2.490-06
32	78	6.406+01	9.494+08	3.504-04	3.695-04	33	82	6.427+01	6.358+07	6.561-05	4.165-05
32	79	6.390+01	1.810+07	1.108-05	1.166-05	33	83	6.352+01	1.049+09	2.115-04	1.327-04
32	80	6.379+01	8.566+06	7.316-06	7.682-06	33	94	6.077+01	1.338+08	7.410-05	4.448-05
32	81	6.372+01	2.436+08	8.899-05	9.334-05	33	95	6.073+01	7.594+08	6.999-04	4.198-04

Table 2. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric dipole (E1) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
33	99	6.065+01	6.350+08	5.835-04	3.495-04	34	142	4.327+01	3.348+10	3.133-03	1.339-03
33	110	6.058+01	3.454+07	1.901-05	1.137-05	34	143	4.326+01	7.186+09	2.016-03	8.614-04
33	111	6.045+01	1.878+08	1.029-04	6.143-05	34	144	4.319+01	3.196+08	1.490-04	6.354-05
33	112	6.038+01	2.780+07	2.532-05	1.510-05	34	145	4.314+01	1.033+09	2.882-04	1.228-04
33	113	6.002+01	5.413+09	9.744-04	5.775-04	34	150	4.153+01	3.834+11	1.652-01	6.777-02
33	114	5.836+01	1.398+10	7.141-03	4.116-03	35	38	3.338+02	2.609+06	4.358-05	2.395-04
33	119	5.780+01	3.241+11	5.411-02	3.089-02	35	39	3.282+02	6.328+06	6.129-05	3.311-04
33	123	5.712+01	3.467+08	2.827-04	1.595-04	35	42	2.473+02	8.243+06	4.534-05	1.845-04
33	132	5.117+01	2.514+10	9.871-03	4.989-03	35	52	1.854+02	1.461+08	4.519-04	1.379-03
33	133	5.116+01	3.002+10	1.963-02	9.920-03	35	54	1.834+02	1.704+08	8.596-04	2.595-03
33	135	5.077+01	4.954+11	3.190-01	1.600-01	35	55	1.831+02	1.161+08	8.166-04	2.461-03
33	140	3.876+01	6.380+09	1.437-03	5.499-04	35	57	1.814+02	9.781+07	4.824-04	1.441-03
33	141	3.862+01	1.626+11	1.212-02	4.625-03	35	58	1.804+02	9.185+06	6.272-05	1.862-04
33	146	3.704+01	1.406+10	2.893-03	1.058-03	35	59	1.737+02	8.672+07	2.353-04	6.728-04
33	147	3.704+01	1.601+10	5.489-03	2.008-03	35	68	1.545+02	2.042+06	7.304-06	1.857-05
33	149	3.694+01	2.983+11	1.017-01	3.711-02	35	69	1.540+02	8.192+06	2.912-05	7.383-05
34	38	3.326+02	1.702+05	4.703-06	1.545-05	35	70	1.534+02	1.622+08	8.009-04	2.022-03
34	39	3.270+02	1.565+06	2.508-05	8.099-05	35	71	1.492+02	1.328+08	2.662-04	6.539-04
34	41	2.482+02	2.224+07	6.849-05	1.679-04	35	76	8.537+01	1.230+07	1.344-05	1.888-05
34	42	2.466+02	3.820+06	3.483-05	8.482-05	35	77	8.517+01	2.325+07	1.517-05	2.127-05
34	51	1.862+02	3.621+08	6.277-04	1.155-03	35	85	7.844+01	1.170+08	6.473-05	8.358-05
34	52	1.850+02	1.963+08	1.008-03	1.841-03	35	87	7.755+01	1.110+09	6.001-04	7.661-04
34	54	1.831+02	1.703+07	1.426-04	2.578-04	35	89	7.738+01	4.926+08	4.421-04	5.632-04
34	57	1.810+02	2.275+07	1.862-04	3.330-04	35	90	7.736+01	5.572+05	6.999-07	8.913-07
34	59	1.734+02	5.872+07	2.646-04	4.530-04	35	91	7.722+01	4.160+07	3.719-05	4.727-05
34	68	1.542+02	2.380+08	1.414-03	2.154-03	35	92	7.713+01	2.499+07	3.121-05	3.962-05
34	69	1.537+02	2.639+07	1.558-04	2.366-04	35	93	7.641+01	1.872+08	9.834-05	1.237-04
34	71	1.490+02	3.716+07	1.237-04	1.820-04	35	102	7.543+01	1.112+09	9.483-04	1.178-03
34	76	8.529+01	8.256+05	1.501-06	1.264-06	35	103	7.542+01	3.596+09	4.293-03	5.329-03
34	77	8.509+01	8.225+06	8.929-06	7.504-06	35	106	7.535+01	1.069+09	1.274-03	1.580-03
34	84	7.845+01	2.269+08	6.978-05	5.406-05	35	115	7.172+01	2.444+07	1.884-05	2.224-05
34	85	7.838+01	3.528+07	3.250-05	2.515-05	35	116	7.167+01	1.970+07	1.518-05	1.791-05
34	86	7.759+01	2.256+09	6.788-04	5.202-04	35	117	7.160+01	4.320+07	4.649-05	5.479-05
34	87	7.748+01	7.878+08	7.090-04	5.425-04	35	118	7.120+01	7.706+08	3.514-04	4.118-04
34	89	7.731+01	5.670+07	8.469-05	6.466-05	35	124	6.997+01	2.152+09	2.211-03	2.546-03
34	91	7.715+01	6.122+06	9.106-06	6.939-06	35	129	6.684+01	6.035+10	2.425-02	2.668-02
34	93	7.635+01	2.059+07	1.800-05	1.357-05	35	130	6.650+01	1.266+10	8.397-03	9.192-03
34	102	7.537+01	5.996+09	8.511-03	6.336-03	35	131	6.629+01	6.122+09	2.420-03	2.640-03
34	115	7.166+01	3.869+07	4.964-05	3.513-05	35	136	5.909+01	1.884+11	9.863-02	9.593-02
34	116	7.162+01	4.068+06	5.214-06	3.688-06	35	137	5.908+01	1.063+12	7.787-01	7.573-01
34	118	7.114+01	1.370+06	1.040-06	7.306-07	35	139	5.903+01	2.279+10	1.666-02	1.619-02
34	128	6.685+01	8.904+10	1.988-02	1.313-02	35	143	4.328+01	2.264+10	3.814-03	2.718-03
34	129	6.679+01	1.898+10	1.269-02	8.374-03	35	144	4.321+01	4.778+09	1.337-03	9.512-04
34	130	6.646+01	8.367+08	9.233-04	6.060-04	35	145	4.317+01	2.233+09	3.742-04	2.659-04
34	131	6.624+01	2.787+09	1.833-03	1.199-03	35	150	4.155+01	7.061+10	1.828-02	1.250-02
34	136	5.905+01	1.025+12	8.927-01	5.206-01	35	151	4.155+01	3.992+11	1.446-01	9.892-02

Table 2. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric dipole (E1) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
35	153	4.153+01	6.568+09	2.378-03	1.626-03	37	68	1.656+02	3.455+07	1.420-04	3.869-04
36	38	3.362+02	1.331+07	1.610-04	1.248-03	37	69	1.650+02	2.760+07	1.126-04	3.059-04
36	53	1.846+02	2.566+08	1.686-03	7.172-03	37	70	1.643+02	9.004+07	5.102-04	1.380-03
36	54	1.841+02	9.432+07	3.424-04	1.453-03	37	71	1.596+02	2.178+08	4.987-04	1.310-03
36	55	1.838+02	7.057+07	3.573-04	1.513-03	37	76	8.864+01	3.014+04	3.550-08	5.181-08
36	57	1.821+02	2.439+07	8.661-05	3.634-04	37	77	8.844+01	1.077+07	7.580-06	1.103-05
36	58	1.811+02	1.698+08	8.348-04	3.483-03	37	85	8.120+01	2.253+07	1.336-05	1.786-05
36	68	1.550+02	2.011+06	5.173-06	1.847-05	37	87	8.024+01	9.550+06	5.531-06	7.305-06
36	69	1.545+02	2.643+08	6.756-04	2.405-03	37	89	8.006+01	1.556+07	1.495-05	1.970-05
36	70	1.539+02	1.976+07	7.015-05	2.488-04	37	90	8.004+01	4.345+06	5.843-06	7.699-06
36	76	8.552+01	7.302+07	5.718-05	1.127-04	37	91	7.989+01	3.826+07	3.661-05	4.814-05
36	88	7.756+01	1.594+06	1.848-06	3.302-06	37	92	7.980+01	5.159+06	6.895-06	9.056-06
36	89	7.751+01	7.707+08	4.958-04	8.855-04	37	93	7.903+01	9.682+08	5.440-04	7.076-04
36	90	7.749+01	2.901+07	2.612-05	4.664-05	37	102	7.798+01	1.981+06	1.806-06	2.319-06
36	91	7.735+01	5.214+07	3.340-05	5.953-05	37	103	7.797+01	2.289+09	2.921-03	3.748-03
36	92	7.726+01	1.998+08	1.788-04	3.183-04	37	106	7.789+01	1.365+09	1.738-03	2.228-03
36	102	7.556+01	3.194+07	1.953-05	3.400-05	37	115	7.402+01	2.426+07	1.992-05	2.427-05
36	103	7.554+01	4.840+08	4.140-04	7.208-04	37	116	7.397+01	1.638+07	1.344-05	1.636-05
36	106	7.547+01	1.197+08	1.022-04	1.778-04	37	117	7.389+01	2.355+05	2.699-07	3.283-07
36	107	7.546+01	3.062+09	3.360-03	5.844-03	37	118	7.346+01	1.092+09	5.299-04	6.408-04
36	108	7.543+01	2.367+07	2.596-05	4.512-05	37	124	7.216+01	2.101+09	2.296-03	2.727-03
36	115	7.183+01	3.373+07	1.864-05	3.084-05	37	129	6.883+01	1.094+10	4.664-03	5.284-03
36	116	7.178+01	1.588+09	8.765-04	1.450-03	37	130	6.848+01	1.629+07	1.146-05	1.291-05
36	117	7.171+01	7.004+07	5.400-05	8.924-05	37	131	6.825+01	8.414+10	3.525-02	3.960-02
36	124	7.007+01	2.474+08	1.821-04	2.941-04	37	136	6.064+01	3.571+08	1.969-04	1.965-04
36	125	7.007+01	5.126+09	4.851-03	7.832-03	37	137	6.063+01	2.760+10	2.130-02	2.126-02
36	126	7.005+01	4.106+07	3.884-05	6.269-05	37	139	6.058+01	1.175+12	9.051-01	9.025-01
36	130	6.660+01	7.261+10	3.449-02	5.293-02	37	143	4.411+01	5.107+09	8.938-04	6.489-04
36	136	5.916+01	5.353+09	2.007-03	2.736-03	37	144	4.403+01	8.186+06	2.380-06	1.725-06
36	137	5.915+01	1.300+11	6.818-02	9.294-02	37	145	4.399+01	3.889+10	6.769-03	4.901-03
36	138	5.914+01	1.222+12	8.235-01	1.122-00	37	150	4.231+01	1.222+08	3.280-05	2.285-05
36	139	5.910+01	4.687+09	2.454-03	3.342-03	37	151	4.231+01	8.031+09	3.018-03	2.102-03
36	144	4.325+01	2.701+10	5.411-03	5.393-03	37	153	4.229+01	4.402+11	1.653-01	1.150-01
36	150	4.159+01	2.011+09	3.725-04	3.569-04	38	40	9.824+02	1.034+09	8.973-02	1.451-00
36	151	4.158+01	4.894+10	1.269-02	1.216-02	38	43	9.174+02	6.083+08	7.676-02	1.159-00
36	152	4.158+01	4.559+11	1.519-01	1.456-01	38	44	8.741+02	1.509+09	2.421-01	3.483-00
36	153	4.157+01	1.478+09	3.827-04	3.666-04	38	45	8.496+02	2.668+07	1.733-03	2.423-02
37	38	3.902+02	2.032+03	4.640-08	2.981-07	38	46	8.167+02	9.792+08	9.792-02	1.316-00
37	39	3.825+02	1.420+07	1.869-04	1.177-03	38	48	4.783+02	2.616+06	5.384-05	4.239-04
37	42	2.769+02	1.353+07	9.331-05	4.253-04	38	49	4.575+02	7.414+07	1.396-03	1.051-02
37	52	2.016+02	2.469+06	9.026-06	2.995-05	38	50	4.537+02	8.167+06	2.521-04	1.883-03
37	54	1.992+02	1.988+07	1.183-04	3.880-04	38	60	3.251+02	8.269+04	7.864-07	4.209-06
37	55	1.988+02	5.693+07	4.724-04	1.546-03	38	63	3.240+02	6.456+05	1.016-05	5.417-05
37	57	1.969+02	6.006+07	3.489-04	1.131-03	38	64	3.211+02	1.586+06	3.432-05	1.814-04
37	58	1.957+02	6.037+07	4.851-04	1.562-03	38	65	3.207+02	2.205+04	3.399-07	1.794-06
37	59	1.878+02	1.656+08	5.256-04	1.625-03	38	66	3.204+02	1.055+05	2.273-06	1.199-05

Table 2. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric dipole (E1) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
38	72	2.431+02	8.707+03	1.080-07	4.320-07	39	82	1.078+02	2.194+10	6.373-02	6.785-02
38	74	2.420+02	2.399+06	2.948-05	1.174-04	39	83	1.057+02	3.464+10	1.935-02	2.021-02
38	75	2.419+02	2.167+05	1.902-06	7.572-06	39	94	9.832+01	3.527+06	5.111-06	4.962-06
38	78	1.084+02	5.881+10	6.221-02	1.110-01	39	95	9.822+01	1.768+06	4.263-06	4.136-06
38	79	1.080+02	2.299+10	4.019-02	7.144-02	39	99	9.800+01	6.543+07	1.570-04	1.520-04
38	80	1.077+02	4.842+10	1.178-01	2.088-01	39	110	9.783+01	7.510+07	1.077-04	1.041-04
38	81	1.075+02	6.872+08	7.141-04	1.263-03	39	111	9.749+01	2.367+08	3.373-04	3.248-04
38	82	1.072+02	2.466+10	4.249-02	7.499-02	39	112	9.729+01	1.398+07	3.307-05	3.178-05
38	94	9.782+01	3.692+06	3.178-06	5.116-06	39	113	9.636+01	3.056+08	1.418-04	1.350-04
38	95	9.773+01	8.668+06	1.241-05	1.997-05	39	114	9.217+01	1.436+10	1.828-02	1.664-02
38	98	9.757+01	1.923+07	3.842-05	6.170-05	39	119	9.077+01	8.704+10	3.584-02	3.213-02
38	99	9.750+01	1.070+05	1.526-07	2.449-07	39	123	8.911+01	2.229+07	4.421-05	3.891-05
38	100	9.749+01	2.475+05	4.938-07	7.924-07	39	132	7.543+01	7.299+07	6.226-05	4.639-05
38	110	9.734+01	1.535+08	1.308-04	2.096-04	39	133	7.540+01	1.845+08	2.621-04	1.952-04
38	111	9.700+01	8.292+08	7.019-04	1.121-03	39	135	7.455+01	1.053+06	1.463-06	1.077-06
38	112	9.681+01	3.124+05	4.390-07	6.995-07	39	140	5.124+01	5.659+06	2.227-06	1.127-06
38	114	9.174+01	6.583+10	4.983-02	7.524-02	39	141	5.100+01	3.679+07	4.783-06	2.409-06
38	120	8.876+01	1.247+05	2.062-07	3.013-07	39	146	4.828+01	3.539+07	1.237-05	5.899-06
38	121	8.873+01	9.836+06	1.625-05	2.374-05	39	147	4.828+01	6.600+07	3.843-05	1.832-05
38	123	8.870+01	1.010+06	1.191-06	1.738-06	39	149	4.810+01	4.016+04	2.322-08	1.103-08
38	132	7.514+01	1.559+07	7.918-06	9.793-06	40	41	2.444+05	7.631-01	2.277-06	5.495-03
38	133	7.511+01	1.443+08	1.221-04	1.509-04	40	42	3.266+04	1.426+02	2.281-05	7.357-03
38	134	7.506+01	6.072+08	7.179-04	8.869-04	40	51	7.438+02	2.655+09	7.342-02	5.394-01
38	135	7.427+01	8.389+04	6.937-08	8.480-08	40	52	7.246+02	2.187+09	1.722-01	1.232-00
38	140	5.110+01	2.753+07	6.467-06	5.439-06	40	54	6.952+02	1.085+09	1.310-01	8.995-01
38	146	4.816+01	6.876+06	1.435-06	1.138-06	40	57	6.669+02	1.196+08	1.329-02	8.752-02
38	147	4.816+01	6.074+07	2.112-05	1.674-05	40	59	5.735+02	8.167+06	4.026-04	2.280-03
38	148	4.815+01	2.482+08	1.208-04	9.570-05	40	68	4.065+02	1.575+06	6.501-05	2.610-04
38	149	4.799+01	1.960+05	6.766-08	5.344-08	40	69	4.032+02	1.088+07	4.420-04	1.760-03
38	154	4.738+01	3.608-00	1.700-12	1.326-12	40	71	3.722+02	5.260+06	1.092-04	4.015-04
39	40	1.035+03	1.492+07	2.396-03	2.449-02	40	76	1.299+02	2.300+10	9.693-02	1.243-01
39	43	9.631+02	6.014+08	1.394-01	1.326-00	40	77	1.294+02	7.392+08	1.856-03	2.372-03
39	45	8.886+02	1.373+09	1.625-01	1.426-00	40	84	1.147+02	2.508+09	1.647-03	1.866-03
39	46	8.527+02	7.668+08	1.393-01	1.173-00	40	85	1.145+02	1.151+09	2.261-03	2.557-03
39	47	6.718+02	3.195+09	7.205-02	4.780-01	40	86	1.128+02	9.319+10	5.927-02	6.604-02
39	48	4.905+02	5.348+05	1.929-05	9.343-05	40	87	1.126+02	6.887+10	1.309-01	1.455-01
39	49	4.686+02	1.945+05	6.403-06	2.964-05	40	89	1.122+02	2.977+10	9.369-02	1.038-01
39	50	4.646+02	2.167+06	1.169-04	5.364-04	40	91	1.119+02	2.501+09	7.826-03	8.649-03
39	56	4.127+02	1.552+09	1.321-02	5.386-02	40	93	1.102+02	6.297+06	1.147-05	1.248-05
39	60	3.307+02	5.340+05	8.757-06	2.860-05	40	102	1.082+02	1.324+05	3.871-07	4.137-07
39	63	3.295+02	1.030+06	2.794-05	9.090-05	40	115	1.007+02	5.905+06	1.496-05	1.488-05
39	65	3.261+02	9.874+06	2.623-04	8.448-04	40	116	1.006+02	1.874+08	4.742-04	4.712-04
39	75	2.450+02	1.144+07	1.715-04	4.149-04	40	118	9.968+01	3.587+07	5.343-05	5.260-05
39	78	1.091+02	1.695+09	3.022-03	3.255-03	40	128	9.145+01	5.477+10	2.289-02	2.067-02
39	79	1.086+02	2.841+10	8.370-02	8.976-02	40	129	9.134+01	1.215+10	1.520-02	1.371-02
39	81	1.081+02	4.947+10	8.663-02	9.247-02	40	130	9.072+01	6.179+08	1.271-03	1.138-03

Table 2. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric dipole (E1) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
40	131	9.032+01	3.555+09	4.348-03	3.878-03	42	123	9.779+01	4.995+06	1.194-05	1.153-05
40	136	7.746+01	1.894+07	2.839-05	2.172-05	42	132	8.157+01	1.283+08	1.280-04	1.031-04
40	142	5.240+01	1.055+08	1.448-05	7.492-06	42	133	8.153+01	1.747+08	2.901-04	2.336-04
40	143	5.238+01	9.292+07	3.822-05	1.977-05	42	135	8.054+01	1.076+05	1.744-07	1.388-07
40	144	5.228+01	8.522+07	5.819-05	3.004-05	42	140	5.399+01	3.730+06	1.630-06	8.693-07
40	145	5.221+01	1.465+07	5.988-06	3.087-06	42	141	5.374+01	2.251+07	3.249-06	1.724-06
40	150	4.987+01	3.902+06	2.424-06	1.194-06	42	146	5.072+01	4.147+07	1.600-05	8.013-06
41	45	6.452+03	3.336+02	6.247-06	1.327-04	42	147	5.072+01	7.457+07	4.793-05	2.401-05
41	48	9.358+02	4.272+08	1.683-01	5.184-01	42	149	5.053+01	3.608+05	2.302-07	1.149-07
41	49	8.594+02	1.026+09	3.408-01	9.642-01	43	52	7.645+02	2.500+08	1.315-02	1.654-01
41	60	4.870+02	2.024+06	2.158-04	3.461-04	43	54	7.318+02	2.566+08	2.060-02	2.482-01
41	78	1.220+02	3.525+08	2.358-03	9.467-04	43	55	7.264+02	2.474+09	2.740-01	3.276-00
41	81	1.207+02	1.323+05	8.674-07	3.448-07	43	57	7.006+02	1.062+09	7.815-02	9.012-01
41	94	1.087+02	4.516+08	2.399-03	8.584-04	43	58	6.858+02	2.359+07	2.329-03	2.629-02
41	110	1.081+02	1.108+10	5.822-02	2.072-02	43	59	5.982+02	1.219+08	3.923-03	3.863-02
41	111	1.077+02	4.070+10	2.123-01	7.525-02	43	68	4.188+02	3.477+06	9.140-05	6.300-04
41	114	1.012+02	7.283+09	3.356-02	1.118-02	43	69	4.152+02	1.762+07	4.555-04	3.113-03
41	132	8.139+01	2.376+08	7.079-04	1.897-04	43	70	4.109+02	7.892+05	2.797-05	1.892-04
41	140	5.392+01	2.063+06	2.697-06	4.787-07	43	71	3.824+02	5.309+06	6.984-05	4.397-04
41	146	5.066+01	8.804+07	1.016-04	1.694-05	43	76	1.311+02	1.812+10	4.669-02	1.007-01
42	43	2.414+04	1.893-00	2.756-07	6.571-05	43	77	1.306+02	3.622+10	5.560-02	1.196-01
42	45	7.785+03	1.374+03	1.248-05	9.596-04	43	85	1.154+02	1.444+08	1.731-04	3.289-04
42	46	5.686+03	7.209+03	5.823-05	3.270-03	43	87	1.135+02	1.123+10	1.302-02	2.432-02
42	47	2.034+03	8.332+06	1.722-03	3.459-02	43	89	1.132+02	8.563+09	1.644-02	3.061-02
42	48	9.597+02	7.261+08	1.002-01	9.501-01	43	90	1.131+02	7.908+10	2.124-01	3.954-01
42	49	8.794+02	5.018+08	5.819-02	5.054-01	43	91	1.128+02	2.883+10	5.501-02	1.021-01
42	50	8.655+02	1.557+09	2.914-01	2.491-00	43	92	1.126+02	5.996+08	1.596-03	2.959-03
42	56	7.012+02	2.819+09	6.927-02	4.798-01	43	93	1.111+02	2.046+09	2.272-03	4.155-03
42	60	4.934+02	9.209+05	3.360-05	1.637-04	43	102	1.090+02	6.980+05	1.244-06	2.233-06
42	63	4.906+02	5.357+06	3.222-04	1.561-03	43	103	1.090+02	3.827+06	9.546-06	1.713-05
42	65	4.831+02	2.384+06	1.391-04	6.635-04	43	106	1.089+02	1.267+07	3.150-05	5.645-05
42	75	3.241+02	1.227+06	3.222-05	1.031-04	43	115	1.014+02	2.255+06	3.479-06	5.809-06
42	78	1.223+02	4.881+08	1.095-03	1.324-03	43	116	1.013+02	2.456+07	3.783-05	6.311-05
42	79	1.218+02	5.057+06	1.874-05	2.254-05	43	117	1.012+02	1.312+07	2.821-05	4.700-05
42	81	1.211+02	2.034+05	4.473-07	5.352-07	43	118	1.004+02	1.180+08	1.070-04	1.768-04
42	82	1.208+02	9.356+07	3.411-04	4.069-04	43	124	9.798+01	6.344+06	1.278-05	2.062-05
42	83	1.182+02	1.731+09	1.208-03	1.410-03	43	129	9.195+01	6.953+10	5.288-02	8.003-02
42	94	1.090+02	6.070+08	1.081-03	1.164-03	43	130	9.132+01	4.251+07	5.314-05	7.988-05
42	95	1.089+02	1.448+07	4.288-05	4.612-05	43	131	9.091+01	4.143+09	3.080-03	4.608-03
42	99	1.086+02	1.268+08	3.736-04	4.007-04	43	136	7.789+01	1.216+08	1.106-04	1.418-04
42	110	1.084+02	4.126+10	7.269-02	7.782-02	43	137	7.788+01	8.925+08	1.136-03	1.457-03
42	111	1.080+02	1.545+10	2.701-02	2.881-02	43	139	7.779+01	2.005+08	2.547-04	3.261-04
42	112	1.078+02	4.825+10	1.400-01	1.489-01	43	143	5.258+01	5.468+05	1.360-07	1.177-07
42	113	1.066+02	3.601+10	2.045-02	2.153-02	43	144	5.247+01	3.067+06	1.266-06	1.094-06
42	114	1.015+02	1.367+10	2.111-02	2.116-02	43	145	5.241+01	1.875+06	4.632-07	3.996-07
42	119	9.980+01	4.192+10	2.087-02	2.056-02	43	150	5.005+01	2.533+07	9.512-06	7.836-06

Table 2. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric dipole (E1) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
43	151	5.004+01	1.729+08	9.088-05	7.486-05	45	77	1.321+02	3.586+10	9.387-02	1.225-01
43	153	5.002+01	3.512+07	1.844-05	1.518-05	45	84	1.168+02	1.340+08	9.134-05	1.054-04
44	53	7.702+02	2.482+09	2.838-01	5.037-00	45	85	1.166+02	5.901+08	1.203-03	1.386-03
44	54	7.619+02	1.174+08	7.300-03	1.282-01	45	86	1.149+02	2.072+09	1.366-03	1.550-03
44	55	7.560+02	4.022+08	3.447-02	6.005-01	45	87	1.146+02	2.133+08	4.202-04	4.758-04
44	57	7.281+02	4.410+07	2.504-03	4.201-02	45	89	1.143+02	9.885+09	3.226-02	3.641-02
44	58	7.121+02	5.750+08	4.371-02	7.174-01	45	91	1.139+02	6.155+10	1.996-01	2.246-01
44	68	4.284+02	8.357+04	1.643-06	1.622-05	45	93	1.122+02	3.773+10	7.118-02	7.887-02
44	69	4.248+02	1.414+07	2.732-04	2.674-03	45	102	1.101+02	1.057+06	3.202-06	3.481-06
44	70	4.203+02	1.073+07	2.841-04	2.752-03	45	115	1.023+02	2.239+07	5.860-05	5.923-05
44	76	1.320+02	5.779+10	1.079-01	3.282-01	45	116	1.022+02	9.508+06	2.484-05	2.509-05
44	88	1.140+02	9.627+10	2.410-01	6.328-01	45	118	1.013+02	1.146+08	1.763-04	1.764-04
44	89	1.138+02	5.666+09	7.865-03	2.063-02	45	128	9.280+01	2.911+10	1.253-02	1.148-02
44	90	1.138+02	1.453+10	2.821-02	7.398-02	45	129	9.269+01	6.694+08	8.622-04	7.893-04
44	91	1.135+02	1.216+09	1.677-03	4.386-03	45	130	9.205+01	2.966+09	6.279-03	5.708-03
44	92	1.133+02	1.647+10	3.170-02	8.279-02	45	131	9.163+01	3.078+10	3.874-02	3.506-02
44	102	1.097+02	3.499+04	4.508-08	1.139-07	45	136	7.842+01	2.093+08	3.217-04	2.491-04
44	103	1.097+02	6.362+05	1.147-06	2.899-06	45	142	5.284+01	8.067+06	1.125-06	5.873-07
44	106	1.095+02	7.012+04	1.260-07	3.181-07	45	143	5.282+01	3.510+06	1.468-06	7.660-07
44	107	1.095+02	2.721+06	6.287-06	1.586-05	45	144	5.272+01	1.437+07	9.975-06	5.193-06
44	108	1.094+02	1.868+04	4.311-08	1.087-07	45	145	5.265+01	1.412+05	5.869-08	3.052-08
44	115	1.020+02	3.780+06	4.211-06	9.899-06	45	150	5.026+01	4.123+07	2.603-05	1.292-05
44	116	1.019+02	5.558+07	6.181-05	1.451-04	46	52	8.521+02	2.598+08	1.697-02	2.380-01
44	117	1.018+02	2.134+06	3.313-06	7.770-06	46	54	8.117+02	9.109+08	8.998-02	1.202-00
44	124	9.850+01	1.352+05	1.966-07	4.463-07	46	55	8.050+02	2.192+07	2.981-03	3.950-02
44	125	9.848+01	2.809+06	5.252-06	1.192-05	46	57	7.734+02	4.665+06	4.183-04	5.326-03
44	126	9.846+01	2.531+04	4.729-08	1.073-07	46	58	7.554+02	2.157+09	2.584-01	3.213-00
44	130	9.177+01	6.186+10	5.579-02	1.180-01	46	59	6.505+02	5.795+06	2.206-04	2.362-03
44	136	7.822+01	6.274+06	4.110-06	7.410-06	46	68	4.437+02	1.457+06	4.300-05	3.141-04
44	137	7.821+01	1.509+08	1.384-04	2.494-04	46	69	4.398+02	4.525+07	1.312-03	9.498-03
44	138	7.818+01	1.404+09	1.655-03	2.981-03	46	70	4.350+02	4.723+05	1.875-05	1.343-04
44	139	7.811+01	5.775+06	5.283-06	9.509-06	46	71	4.032+02	9.124+06	1.334-04	8.853-04
44	144	5.262+01	1.068+07	3.166-06	3.839-06	46	76	1.334+02	2.040+10	5.447-02	1.196-01
44	150	5.018+01	1.245+06	3.358-07	3.883-07	46	77	1.330+02	3.179+10	5.055-02	1.107-01
44	151	5.018+01	3.016+07	1.139-05	1.317-05	46	85	1.173+02	3.950+08	4.885-04	9.429-04
44	152	5.017+01	2.765+08	1.342-04	1.551-04	46	87	1.153+02	1.455+10	1.739-02	3.300-02
44	153	5.015+01	1.018+06	3.840-07	4.438-07	46	89	1.149+02	4.300+10	8.511-02	1.610-01
45	51	8.437+02	2.930+07	1.042-03	8.683-03	46	90	1.149+02	1.034+09	2.865-03	5.416-03
45	52	8.190+02	1.703+06	1.712-04	1.385-03	46	91	1.146+02	2.973+08	5.848-04	1.103-03
45	54	7.816+02	2.668+08	4.072-02	3.144-01	46	92	1.143+02	7.840+10	2.152-01	4.050-01
45	57	7.460+02	1.737+09	2.416-01	1.780-00	46	93	1.128+02	5.064+08	5.794-04	1.076-03
45	59	6.310+02	1.997+09	1.192-01	7.430-01	46	102	1.107+02	7.895+02	1.449-09	2.640-09
45	68	4.346+02	1.444+06	6.813-05	2.924-04	46	103	1.106+02	1.248+07	3.207-05	5.841-05
45	69	4.308+02	1.988+06	9.218-05	3.922-04	46	106	1.105+02	7.916+06	2.028-05	3.687-05
45	71	3.956+02	2.891+08	6.783-03	2.650-02	46	115	1.028+02	1.428+05	2.265-07	3.834-07
45	76	1.326+02	3.175+08	1.395-03	1.827-03	46	116	1.028+02	9.480+05	1.501-06	2.538-06

Table 2. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric dipole (E1) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
46	117	1.026+02	5.717+05	1.263-06	2.133-06	48	116	1.128+02	2.545+07	8.089-05	9.011-05
46	118	1.018+02	4.684+07	4.364-05	7.312-05	48	118	1.116+02	2.534+10	4.733-02	5.218-02
46	124	9.929+01	2.574+06	5.326-06	8.705-06	48	128	1.014+02	3.203+10	1.646-02	1.648-02
46	129	9.310+01	3.413+09	2.661-03	4.078-03	48	129	1.013+02	1.822+10	2.801-02	2.801-02
46	130	9.245+01	2.336+10	2.993-02	4.555-02	48	130	1.005+02	8.878+07	2.241-04	2.224-04
46	131	9.203+01	3.442+10	2.623-02	3.973-02	48	131	1.000+02	2.244+09	3.364-03	3.323-03
46	136	7.872+01	1.862+05	1.730-07	2.242-07	48	136	8.448+01	5.874+08	1.047-03	8.739-04
46	137	7.870+01	8.134+06	1.057-05	1.370-05	48	142	5.552+01	2.645+07	4.074-06	2.234-06
46	139	7.861+01	3.450+08	4.475-04	5.790-04	48	143	5.550+01	3.883+05	1.793-07	9.829-08
46	143	5.295+01	1.131+06	2.852-07	2.486-07	48	144	5.538+01	3.223+06	2.470-06	1.351-06
46	144	5.285+01	5.403+06	2.262-06	1.968-06	48	145	5.531+01	1.706+05	7.825-08	4.274-08
46	145	5.278+01	2.672+06	6.695-07	5.816-07	48	150	5.268+01	8.746+07	6.066-05	3.156-05
46	150	5.038+01	1.982+04	7.542-09	6.256-09	49	51	5.659+03	7.463+04	1.194-04	6.676-03
46	151	5.038+01	8.996+05	4.793-07	3.975-07	49	52	4.710+03	3.119+04	1.037-04	4.826-03
46	153	5.036+01	5.751+07	3.061-05	2.537-05	49	54	3.693+03	1.076+04	3.668-05	1.338-03
47	52	1.166+03	9.349+06	5.716-03	2.194-02	49	57	3.014+03	1.715+03	3.894-06	1.159-04
47	59	8.187+02	1.094+09	3.296-01	8.883-01	49	59	1.736+03	5.866+05	2.649-04	4.542-03
47	71	4.620+02	1.196+08	1.148-02	1.746-02	49	68	7.738+02	5.668+07	8.478-03	6.479-02
47	77	1.388+02	1.549+10	1.342-01	6.132-02	49	69	7.618+02	2.281+09	3.308-01	2.489-00
47	85	1.218+02	1.668+07	1.113-04	4.461-05	49	71	6.583+02	6.020+08	3.911-02	2.542-01
47	87	1.196+02	9.801+08	6.308-03	2.484-03	49	76	1.531+02	1.230+08	7.203-04	1.089-03
47	93	1.169+02	5.530+10	3.401-01	1.310-01	49	77	1.524+02	2.883+06	1.004-05	1.512-05
47	118	1.052+02	1.898+09	9.439-03	3.268-03	49	84	1.324+02	7.513+10	6.578-02	8.600-02
47	129	9.592+01	3.754+09	1.553-02	4.905-03	49	85	1.322+02	1.236+10	3.237-02	4.225-02
47	131	9.479+01	1.223+10	4.943-02	1.542-02	49	86	1.299+02	2.939+09	2.480-03	3.182-03
47	143	5.385+01	2.090+07	2.726-05	4.832-06	49	87	1.296+02	9.874+08	2.487-03	3.185-03
47	145	5.367+01	4.512+07	5.845-05	1.033-05	49	89	1.292+02	9.560+06	3.985-05	5.084-05
48	51	3.680+03	2.570+03	1.739-06	6.322-05	49	91	1.287+02	1.620+06	6.707-06	8.526-06
48	52	3.254+03	1.870+01	2.968-08	9.538-07	49	93	1.265+02	3.731+06	8.951-06	1.118-05
48	54	2.734+03	1.182+04	2.207-05	5.957-04	49	102	1.238+02	3.333+05	1.277-06	1.562-06
48	57	2.343+03	1.716+04	2.354-05	5.448-04	49	115	1.141+02	1.228+09	3.996-03	4.504-03
48	59	1.490+03	1.164+06	3.873-04	5.699-03	49	116	1.140+02	8.783+10	2.853-01	3.212-01
48	68	7.208+02	2.533+09	3.288-01	2.341-00	49	118	1.128+02	1.339+10	2.556-02	2.848-02
48	69	7.104+02	1.484+06	1.871-04	1.313-03	49	128	1.024+02	1.600+09	8.383-04	8.476-04
48	71	6.195+02	1.338+09	7.702-02	4.712-01	49	129	1.022+02	1.563+09	2.449-03	2.474-03
48	76	1.509+02	7.176+06	4.081-05	6.082-05	49	130	1.015+02	1.210+10	3.114-02	3.120-02
48	77	1.503+02	6.108+05	2.068-06	3.069-06	49	131	1.010+02	7.732+09	1.182-02	1.178-02
48	84	1.307+02	4.271+10	3.648-02	4.709-02	49	136	8.516+01	6.363+07	1.153-04	9.697-05
48	85	1.305+02	2.460+10	6.284-02	8.100-02	49	142	5.581+01	1.567+05	2.439-08	1.344-08
48	86	1.284+02	2.732+07	2.249-05	2.851-05	49	143	5.579+01	1.103+07	5.148-06	2.837-06
48	87	1.281+02	4.082+07	1.003-04	1.269-04	49	144	5.567+01	3.114+07	2.412-05	1.326-05
48	89	1.276+02	6.502+07	2.645-04	3.334-04	49	145	5.560+01	3.363+06	1.559-06	8.558-07
48	91	1.272+02	3.966+06	1.602-05	2.012-05	49	150	5.295+01	8.907+06	6.239-06	3.263-06
48	93	1.250+02	5.892+05	1.380-06	1.704-06	50	52	5.156+03	2.153+04	5.147-05	4.368-03
48	102	1.224+02	1.575+06	5.896-06	7.127-06	50	54	3.962+03	3.166+04	7.448-05	4.857-03
48	115	1.129+02	7.827+10	2.493-01	2.780-01	50	55	3.807+03	3.283+03	9.988-06	6.260-04

Table 2. Transition energies ($\AA$), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric dipole (E1) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
50	57	3.191+03	4.678-01	7.140-10	3.750-08	52	56	1.305+04	9.101+02	7.746-06	9.985-04
50	58	2.905+03	6.604+03	1.170-05	5.594-04	52	60	1.476+03	1.113+08	3.634-02	5.298-01
50	59	1.793+03	8.789+05	2.541-04	7.499-03	52	63	1.452+03	1.209+08	6.366-02	9.128-01
50	68	7.849+02	3.287+08	3.035-02	3.922-01	52	65	1.388+03	2.792+07	1.344-02	1.842-01
50	69	7.726+02	2.654+08	2.375-02	3.020-01	52	75	5.761+02	1.065+07	8.834-04	5.026-03
50	70	7.579+02	2.615+09	3.153-01	3.934-00	52	78	1.466+02	1.729+10	5.568-02	8.059-02
50	71	6.663+02	7.852+07	3.136-03	3.440-02	52	79	1.457+02	1.271+09	6.744-03	9.706-03
50	76	1.535+02	1.262+07	4.458-05	1.126-04	52	81	1.448+02	5.807+07	1.825-04	2.611-04
50	77	1.529+02	3.637+06	7.646-06	1.924-05	52	82	1.443+02	1.947+09	1.013-02	1.444-02
50	85	1.325+02	6.780+10	1.070-01	2.334-01	52	83	1.406+02	7.722+08	7.630-04	1.060-03
50	87	1.299+02	5.586+08	8.483-04	1.814-03	52	94	1.278+02	9.091+10	2.226-01	2.809-01
50	89	1.295+02	2.075+08	5.214-04	1.111-03	52	95	1.276+02	1.041+11	4.239-01	5.344-01
50	90	1.294+02	6.474+06	2.276-05	4.849-05	52	99	1.272+02	1.291+10	5.223-02	6.564-02
50	91	1.290+02	8.943+06	2.232-05	4.740-05	52	110	1.270+02	2.584+09	6.246-03	7.833-03
50	92	1.288+02	6.703+06	2.333-05	4.946-05	52	111	1.264+02	4.461+08	1.069-03	1.334-03
50	93	1.268+02	4.186+08	6.053-04	1.263-03	52	112	1.261+02	2.753+08	1.093-03	1.362-03
50	102	1.241+02	3.720+05	8.590-07	1.755-06	52	113	1.245+02	1.067+08	8.266-05	1.017-04
50	103	1.241+02	1.649+05	5.330-07	1.089-06	52	114	1.176+02	1.374+08	2.850-04	3.311-04
50	106	1.239+02	3.290+06	1.060-05	2.161-05	52	119	1.153+02	6.728+06	4.472-06	5.094-06
50	115	1.144+02	1.487+10	2.915-02	5.488-02	52	123	1.127+02	4.818+08	1.528-03	1.700-03
50	116	1.142+02	1.031+10	2.018-02	3.796-02	52	132	9.165+01	3.058+10	3.851-02	3.486-02
50	117	1.141+02	9.601+10	2.622-01	4.923-01	52	133	9.161+01	1.045+10	2.192-02	1.983-02
50	118	1.131+02	2.541+09	2.921-03	5.435-03	52	135	9.036+01	3.072+08	6.267-04	5.593-04
50	124	1.100+02	5.488+06	1.393-05	2.522-05	52	140	5.824+01	3.740+06	1.902-06	1.094-06
50	129	1.024+02	7.718+08	7.286-04	1.229-03	52	141	5.794+01	6.814+04	1.143-08	6.540-09
50	130	1.017+02	1.642+10	2.543-02	4.256-02	52	146	5.445+01	9.335+06	4.150-06	2.232-06
50	131	1.012+02	2.464+10	2.268-02	3.777-02	52	147	5.444+01	3.518+06	2.606-06	1.401-06
50	136	8.529+01	6.983+07	7.616-05	1.069-04	52	149	5.422+01	3.364+05	2.472-07	1.324-07
50	137	8.528+01	2.460+08	3.755-04	5.270-04	53	61	1.579+03	7.483+06	2.796-03	1.308-01
50	139	8.517+01	3.494+08	5.318-04	7.456-04	53	62	1.576+03	2.013+08	9.157-02	4.274-00
50	143	5.585+01	1.344+07	3.771-06	3.467-06	53	64	1.489+03	3.051+06	7.883-04	3.477-02
50	144	5.573+01	3.820+04	1.779-08	1.632-08	53	66	1.473+03	4.970+05	1.257-04	5.487-03
50	145	5.566+01	9.946+05	2.771-07	2.539-07	53	67	1.460+03	3.292+07	1.052-02	4.548-01
50	150	5.300+01	9.060+06	3.816-06	3.329-06	53	72	5.982+02	1.684+04	7.027-07	1.246-05
50	151	5.300+01	3.836+07	2.261-05	1.973-05	53	73	5.950+02	4.853+05	2.576-05	4.542-04
50	153	5.297+01	3.933+07	2.316-05	2.020-05	53	74	5.915+02	9.728+03	3.969-07	6.957-06
51	60	1.402+03	1.332+08	1.178-01	5.439-01	53	80	1.461+02	3.029+10	7.537-02	3.262-01
51	78	1.458+02	7.434+09	7.106-02	3.411-02	53	96	1.283+02	2.104+11	6.348-01	2.414-00
51	81	1.441+02	1.455+08	1.358-03	6.439-04	53	97	1.283+02	8.457+09	2.088-02	7.937-02
51	94	1.272+02	9.366+10	6.817-01	2.855-01	53	98	1.281+02	2.023+09	3.871-03	1.469-02
51	110	1.264+02	2.756+09	1.981-02	8.243-03	53	100	1.280+02	7.783+08	1.486-03	5.634-03
51	111	1.258+02	4.291+07	3.056-04	1.266-04	53	101	1.279+02	2.669+10	6.546-02	2.481-01
51	114	1.171+02	5.444+07	3.358-04	1.295-04	53	120	1.133+02	6.339+04	9.494-08	3.188-07
51	132	9.135+01	1.610+10	6.044-02	1.818-02	53	121	1.133+02	4.836+07	7.235-05	2.428-04
51	140	5.812+01	1.183+06	1.796-06	3.437-07	53	122	1.133+02	6.345+06	1.220-05	4.096-05
51	146	5.435+01	5.661+06	7.519-06	1.345-06	53	134	9.190+01	6.548+10	6.448-02	1.756-01

Table 2. Transition energies ($\AA$), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric dipole (E1) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
53	148	5.456+01	6.120+08	2.124-04	3.434-04	55	72	6.071+02	1.250+04	6.905-07	9.660-06
53	154	5.358+01	1.045+04	3.499-09	5.556-09	55	73	6.038+02	4.552+06	3.199-04	4.451-03
53	155	5.358+01	3.571+05	1.537-07	2.440-07	55	74	6.002+02	1.145+06	6.183-05	8.552-04
53	156	5.358+01	9.620+06	5.061-06	8.034-06	55	75	5.998+02	2.552+05	9.832-06	1.359-04
53	157	5.358+01	1.920+05	8.265-08	1.312-07	55	79	1.472+02	2.913+10	6.759-02	2.293-01
54	60	1.615+03	9.581+06	2.249-03	5.980-02	55	80	1.466+02	3.628+09	1.169-02	3.950-02
54	63	1.586+03	6.296+07	2.376-02	6.203-01	55	82	1.458+02	2.981+08	6.782-04	2.278-03
54	64	1.520+03	1.597+08	7.751-02	1.940-00	55	95	1.288+02	1.676+09	2.976-03	8.832-03
54	65	1.510+03	5.394+06	1.845-03	4.587-02	55	97	1.287+02	1.884+11	6.016-01	1.785-00
54	66	1.504+03	3.844+06	1.826-03	4.521-02	55	98	1.285+02	8.157+09	2.019-02	5.978-02
54	72	6.033+02	2.467+03	1.885-07	1.872-06	55	99	1.284+02	2.363+09	4.170-03	1.234-02
54	74	5.965+02	1.259+07	9.401-04	9.231-03	55	100	1.284+02	3.356+10	8.290-02	2.452-01
54	75	5.962+02	6.470+05	3.448-05	3.383-04	55	101	1.283+02	6.638+09	2.106-02	6.228-02
54	78	1.478+02	1.274+10	2.505-02	6.095-02	55	112	1.272+02	4.853+07	8.406-05	2.464-04
54	79	1.470+02	2.205+09	7.142-03	1.728-02	55	120	1.137+02	4.322+06	8.369-06	2.192-05
54	80	1.464+02	6.338+08	2.851-03	6.870-03	55	121	1.136+02	3.716+07	7.189-05	1.882-04
54	81	1.460+02	4.035+09	7.740-03	1.861-02	55	122	1.136+02	2.689+08	6.687-04	1.750-03
54	82	1.456+02	1.000+10	3.177-02	7.610-02	55	123	1.135+02	4.341+07	5.992-05	1.568-04
54	94	1.288+02	1.015+10	1.514-02	3.209-02	55	133	9.219+01	5.079+10	4.622-02	9.820-02
54	95	1.286+02	6.829+10	1.693-01	3.584-01	55	134	9.211+01	8.559+06	1.089-05	2.310-05
54	98	1.283+02	1.524+11	5.268-01	1.113-00	55	135	9.092+01	2.019+10	1.787-02	3.745-02
54	99	1.282+02	2.396+09	5.904-03	1.246-02	55	147	5.465+01	3.546+08	1.134-04	1.428-04
54	100	1.282+02	2.850+07	9.830-05	2.074-04	55	148	5.463+01	4.395+07	1.967-05	2.476-05
54	110	1.279+02	3.497+08	5.148-04	1.084-03	55	149	5.443+01	1.643+08	5.212-05	6.538-05
54	111	1.273+02	9.549+07	1.393-04	2.920-04	55	154	5.365+01	3.912+05	1.688-07	2.088-07
54	112	1.270+02	5.591+08	1.352-03	2.827-03	55	155	5.365+01	1.249+07	6.929-06	8.568-06
54	114	1.184+02	1.536+08	1.938-04	3.777-04	55	157	5.365+01	4.986+05	2.766-07	3.420-07
54	120	1.135+02	2.434+06	6.583-06	1.230-05	56	59	3.482+03	1.689+05	9.211-04	1.056-02
54	121	1.135+02	7.110+08	1.921-03	3.588-03	56	71	8.129+02	1.119+09	3.326-01	8.900-01
54	123	1.134+02	3.125+07	6.026-05	1.125-04	56	77	1.595+02	3.055+09	3.494-02	1.835-02
54	132	9.215+01	9.101+09	6.951-03	1.054-02	56	85	1.374+02	1.609+10	1.367-01	6.182-02
54	133	9.210+01	2.491+10	3.168-02	4.803-02	56	87	1.347+02	1.095+08	8.931-04	3.959-04
54	134	9.202+01	7.926+09	1.409-02	2.134-02	56	93	1.313+02	3.351+09	2.598-02	1.123-02
54	135	9.084+01	7.440+09	9.203-03	1.376-02	56	118	1.166+02	5.707+10	3.490-01	1.340-01
54	140	5.843+01	6.914+06	2.124-06	2.043-06	56	129	1.054+02	7.451+09	3.720-02	1.290-02
54	146	5.462+01	6.399+04	1.718-08	1.544-08	56	131	1.040+02	4.364+09	2.123-02	7.268-03
54	147	5.462+01	1.145+07	5.121-06	4.604-06	56	143	5.671+01	9.735+06	1.408-05	2.628-06
54	148	5.460+01	1.823+06	1.141-06	1.025-06	56	145	5.651+01	7.336+07	1.054-04	1.960-05
54	149	5.440+01	3.831+05	1.700-07	1.522-07	57	60	1.792+03	2.014+06	5.818-04	1.716-02
54	154	5.362+01	1.983+04	1.197-08	1.056-08	57	63	1.756+03	4.017+05	1.858-04	5.371-03
55	61	1.642+03	1.567+08	8.141-02	3.081-00	57	64	1.676+03	2.883+05	1.700-04	4.690-03
55	63	1.613+03	1.514+06	4.215-04	1.566-02	57	65	1.664+03	3.509+07	1.456-02	3.988-01
55	64	1.545+03	1.322+07	4.727-03	1.683-01	57	66	1.656+03	1.460+08	8.406-02	2.292-00
55	65	1.534+03	2.776+06	6.997-04	2.474-02	57	72	6.264+02	1.510+06	1.244-04	1.282-03
55	66	1.528+03	3.000+07	1.050-02	3.696-01	57	74	6.191+02	1.172+04	9.431-07	9.610-06
55	67	1.514+03	8.833+06	3.900-03	1.360-01	57	75	6.187+02	2.500+06	1.435-04	1.461-03

Table 2. Transition energies ($\AA$), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric dipole (E1) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
57	78	1.492+02	1.208+09	2.417-03	5.936-03	58	112	1.285+02	7.470+07	1.321-04	3.912-04
57	79	1.483+02	7.848+09	2.588-02	6.317-02	58	120	1.147+02	5.084+06	1.003-05	2.651-05
57	80	1.477+02	2.650+08	1.213-03	2.950-03	58	121	1.147+02	9.072+07	1.788-04	4.724-04
57	81	1.474+02	2.567+10	5.013-02	1.216-01	58	122	1.146+02	7.021+06	1.778-05	4.699-05
57	82	1.469+02	2.490+07	8.050-05	1.946-04	58	123	1.146+02	3.645+06	5.126-06	1.354-05
57	94	1.298+02	2.568+09	3.890-03	8.310-03	58	133	9.289+01	8.425+09	7.785-03	1.666-02
57	95	1.296+02	1.752+09	4.412-03	9.414-03	58	134	9.280+01	2.633+10	3.399-02	7.270-02
57	98	1.293+02	1.472+09	5.168-03	1.100-02	58	135	9.160+01	2.406+10	2.162-02	4.564-02
57	99	1.292+02	4.203+10	1.052-01	2.238-01	58	147	5.489+01	2.252+05	7.268-08	9.194-08
57	100	1.292+02	1.772+11	6.209-01	1.321-00	58	148	5.488+01	1.874+07	8.460-06	1.070-05
57	110	1.289+02	2.261+08	3.381-04	7.175-04	58	149	5.467+01	1.784+08	5.710-05	7.194-05
57	111	1.284+02	2.346+07	3.476-05	7.344-05	58	154	5.389+01	1.448+04	6.303-09	7.828-09
57	112	1.280+02	5.122+06	1.258-05	2.651-05	58	155	5.389+01	2.041+06	1.143-06	1.419-06
57	114	1.193+02	1.362+06	1.743-06	3.423-06	58	157	5.388+01	5.299+06	2.966-06	3.683-06
57	120	1.143+02	2.205+08	6.047-04	1.138-03	59	60	3.188+03	2.266+05	3.453-04	1.087-02
57	121	1.142+02	3.160+06	8.658-06	1.628-05	59	63	3.077+03	4.150+06	9.817-03	2.983-01
57	123	1.142+02	1.158+08	2.263-04	4.255-04	59	65	2.804+03	2.204+07	4.328-02	1.198-00
57	132	9.267+01	3.520+10	2.719-02	4.147-02	59	75	7.289+02	8.887+07	1.180-02	8.493-02
57	133	9.262+01	2.377+09	3.057-03	4.661-03	59	78	1.548+02	2.119+07	7.612-05	1.164-04
57	134	9.254+01	1.788+09	3.214-03	4.897-03	59	79	1.539+02	2.952+08	1.747-03	2.654-03
57	135	9.134+01	2.375+10	2.971-02	4.467-02	59	81	1.529+02	1.352+10	4.737-02	7.151-02
57	140	5.864+01	1.074+05	3.324-08	3.209-08	59	82	1.523+02	5.216+06	3.023-05	4.548-05
57	146	5.481+01	1.388+08	3.752-05	3.385-05	59	83	1.482+02	3.874+10	4.252-02	6.224-02
57	147	5.480+01	3.569+07	1.607-05	1.449-05	59	94	1.340+02	1.889+09	5.087-03	6.733-03
57	148	5.478+01	2.422+06	1.526-06	1.376-06	59	95	1.339+02	2.368+10	1.060-01	1.401-01
57	149	5.458+01	2.920+06	1.304-06	1.171-06	59	99	1.334+02	1.492+11	6.635-01	8.744-01
57	154	5.380+01	2.288+06	1.390-06	1.231-06	59	110	1.331+02	4.740+07	1.259-04	1.656-04
58	61	1.896+03	8.874+06	6.148-03	2.686-01	59	111	1.325+02	1.055+07	2.778-05	3.635-05
58	63	1.857+03	2.581+06	9.529-04	4.077-02	59	112	1.321+02	8.871+06	3.870-05	5.051-05
58	64	1.767+03	2.966+07	1.389-02	5.656-01	59	113	1.304+02	1.843+08	1.567-04	2.018-04
58	65	1.754+03	3.069+05	1.011-04	4.085-03	59	114	1.229+02	1.819+07	4.116-05	4.994-05
58	66	1.745+03	4.562+05	2.083-04	8.379-03	59	119	1.204+02	2.129+08	1.542-04	1.833-04
58	67	1.727+03	1.271+08	7.305-02	2.907-00	59	123	1.175+02	6.883+09	2.373-02	2.754-02
58	72	6.387+02	2.584+04	1.581-06	2.327-05	59	132	9.481+01	1.112+10	1.499-02	1.404-02
58	73	6.351+02	1.794+05	1.394-05	2.041-04	59	133	9.477+01	7.402+09	1.661-02	1.555-02
58	74	6.311+02	1.383+06	8.259-05	1.201-03	59	135	9.343+01	1.278+10	2.787-02	2.572-02
58	75	6.307+02	2.678+04	1.141-06	1.658-05	59	140	5.950+01	1.290+05	6.849-08	4.024-08
58	79	1.490+02	3.208+08	7.625-04	2.618-03	59	141	5.918+01	8.046+05	1.409-07	8.233-08
58	80	1.484+02	4.420+09	1.459-02	4.989-02	59	146	5.555+01	7.825+06	3.620-06	1.986-06
58	82	1.475+02	2.759+10	6.430-02	2.186-01	59	147	5.554+01	3.087+06	2.379-06	1.305-06
58	95	1.301+02	4.518+09	8.194-03	2.457-02	59	149	5.532+01	8.885+07	6.793-05	3.711-05
58	97	1.301+02	1.457+10	4.753-02	1.425-01	60	68	2.484+03	3.004+02	4.630-07	1.136-05
58	98	1.299+02	4.437+10	1.122-01	3.356-01	60	69	2.365+03	9.664+03	1.351-05	3.154-04
58	99	1.297+02	2.118+08	3.818-04	1.141-03	60	71	1.589+03	1.328+05	5.029-05	7.893-04
58	100	1.297+02	1.236+07	3.117-05	9.319-05	60	76	1.772+02	8.438+04	6.621-07	1.159-06
58	101	1.297+02	1.788+11	5.795-01	1.732-00	60	77	1.764+02	9.080+05	4.235-06	7.377-06

Table 2. Transition energies ($\AA$), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric dipole (E1) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
60	84	1.500+02	1.274+08	1.434-04	2.125-04	62	108	1.388+02	5.469+08	1.292-03	6.493-03
60	85	1.498+02	2.301+07	7.737-05	1.144-04	62	109	1.387+02	2.885+10	8.326-02	4.183-01
60	86	1.469+02	8.265+09	8.916-03	1.294-02	62	125	1.216+02	7.962+07	1.445-04	6.366-04
60	87	1.465+02	2.643+09	8.508-03	1.231-02	62	126	1.216+02	1.249+06	2.265-06	9.975-06
60	89	1.459+02	1.722+08	9.163-04	1.321-03	62	127	1.216+02	4.519+06	1.001-05	4.409-05
60	91	1.454+02	3.536+07	1.867-04	2.681-04	62	138	9.210+01	5.983+10	6.225-02	2.076-01
60	93	1.425+02	2.043+07	6.224-05	8.762-05	62	152	5.556+01	5.463+08	2.069-04	4.163-04
60	102	1.392+02	2.696+11	1.305-00	1.793-00	63	68	2.556+03	1.802+02	1.765-07	7.424-06
60	115	1.270+02	1.085+07	4.373-05	5.486-05	63	69	2.430+03	1.020+05	9.028-05	3.611-03
60	116	1.269+02	8.896+05	3.579-06	4.485-06	63	70	2.290+03	1.188+03	1.308-06	4.932-05
60	118	1.254+02	4.187+05	9.872-07	1.223-06	63	71	1.618+03	4.085+06	9.622-04	2.563-02
60	128	1.126+02	3.067+08	1.944-04	2.163-04	63	76	1.776+02	1.105+06	5.224-06	1.527-05
60	129	1.125+02	6.898+07	1.309-04	1.454-04	63	77	1.767+02	2.200+05	6.179-07	1.798-06
60	130	1.115+02	3.293+06	1.024-05	1.128-05	63	85	1.500+02	1.142+08	2.312-04	5.709-04
60	131	1.109+02	9.624+06	1.775-05	1.945-05	63	87	1.468+02	4.429+09	8.583-03	2.074-02
60	136	9.214+01	5.694+10	1.208-01	1.099-01	63	89	1.462+02	1.826+09	5.850-03	1.408-02
60	142	5.873+01	1.714+08	2.953-05	1.713-05	63	90	1.461+02	5.140+07	2.303-04	5.540-04
60	143	5.871+01	3.718+07	1.921-05	1.114-05	63	91	1.456+02	7.888+06	2.507-05	6.010-05
60	144	5.858+01	1.628+06	1.396-06	8.076-07	63	92	1.453+02	4.063+07	1.800-04	4.306-04
60	145	5.849+01	5.139+06	2.636-06	1.523-06	63	93	1.428+02	1.374+09	2.519-03	5.919-03
60	150	5.557+01	9.158+08	7.066-04	3.878-04	63	102	1.394+02	5.183+10	1.510-01	3.464-01
61	70	2.233+03	8.488+04	4.936-05	3.266-03	63	103	1.394+02	2.660+11	1.084-00	2.487-00
61	88	1.461+02	2.099+08	6.720-04	2.910-03	63	106	1.391+02	1.796+10	7.290-02	1.669-01
61	90	1.459+02	6.307+09	1.565-02	6.765-02	63	115	1.272+02	8.082+05	1.961-06	4.106-06
61	92	1.451+02	5.276+08	1.294-03	5.564-03	63	116	1.271+02	3.866+04	9.358-08	1.957-07
61	103	1.391+02	1.581+07	3.569-05	1.471-04	63	117	1.268+02	1.121+07	3.784-05	7.902-05
61	104	1.390+02	3.494+11	1.237-00	5.093-00	63	118	1.256+02	2.369+06	3.361-06	6.949-06
61	106	1.389+02	9.757+08	2.194-03	9.029-03	63	124	1.218+02	2.351+07	7.322-05	1.468-04
61	107	1.389+02	7.361+08	2.127-03	8.752-03	63	129	1.126+02	1.128+08	1.287-04	2.386-04
61	108	1.388+02	3.126+10	9.021-02	3.709-01	63	130	1.117+02	3.488+07	6.521-05	1.199-04
61	109	1.387+02	1.308+06	4.612-06	1.895-05	63	131	1.111+02	7.599+07	8.433-05	1.542-04
61	117	1.267+02	8.429+05	1.577-06	5.918-06	63	136	9.224+01	1.827+10	2.330-02	3.538-02
61	124	1.217+02	8.491+07	1.465-04	5.280-04	63	137	9.222+01	3.098+10	5.529-02	8.393-02
61	125	1.216+02	7.257+04	1.609-07	5.799-07	63	139	9.209+01	2.106+10	3.748-02	5.681-02
61	126	1.216+02	2.456+06	5.443-06	1.961-05	63	143	5.875+01	6.526+07	2.026-05	1.959-05
61	127	1.216+02	1.147+07	3.105-05	1.118-04	63	144	5.862+01	1.861+07	9.586-06	9.249-06
61	137	9.213+01	4.156+10	4.113-02	1.123-01	63	145	5.853+01	3.731+07	1.150-05	1.108-05
61	138	9.209+01	6.315+08	8.029-04	2.191-03	63	150	5.560+01	1.245+08	5.772-05	5.282-05
61	139	9.200+01	2.083+10	2.056-02	5.604-02	63	151	5.560+01	6.132+08	3.979-04	3.641-04
61	151	5.556+01	3.591+08	1.293-04	2.129-04	63	153	5.557+01	2.638+08	1.710-04	1.564-04
61	152	5.556+01	1.385+07	6.409-06	1.055-05	64	68	2.747+03	4.808+03	3.887-06	2.461-04
61	153	5.553+01	2.179+08	7.836-05	1.289-04	64	69	2.603+03	1.173+05	8.507-05	5.102-03
62	88	1.461+02	6.795+09	1.780-02	9.422-02	64	70	2.443+03	2.943+04	2.633-05	1.482-03
62	104	1.390+02	7.326+09	2.123-02	1.068-01	64	76	1.784+02	3.689+06	1.258-05	5.172-05
62	105	1.390+02	3.573+11	1.223-00	6.155-00	64	88	1.469+02	5.145+07	2.141-04	7.251-04
62	107	1.389+02	9.006+08	2.131-03	1.072-02	64	89	1.468+02	5.885+09	1.357-02	4.591-02

Table 2. Transition energies ($\AA$), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric dipole (E1) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
64	90	1.467+02	3.613+08	1.166-03	3.941-03	65	130	1.121+02	1.937+06	3.649-06	6.731-06
64	91	1.462+02	5.115+06	1.171-05	3.943-05	65	131	1.115+02	2.312+07	2.583-05	4.740-05
64	92	1.459+02	1.162+09	3.707-03	1.246-02	65	136	9.251+01	2.798+10	3.590-02	5.467-02
64	102	1.399+02	4.042+09	8.475-03	2.733-02	65	137	9.249+01	1.029+09	1.848-03	2.813-03
64	103	1.399+02	4.475+10	1.313-01	4.232-01	65	139	9.236+01	2.822+10	5.053-02	7.682-02
64	106	1.396+02	2.523+10	7.375-02	2.373-01	65	143	5.885+01	1.300+07	4.051-06	3.925-06
64	107	1.396+02	2.866+11	1.077-00	3.463-00	65	144	5.872+01	8.207+05	4.243-07	4.101-07
64	108	1.395+02	8.747+09	3.281-02	1.055-01	65	145	5.864+01	1.150+07	3.556-06	3.432-06
64	115	1.277+02	7.242+04	1.264-07	3.717-07	65	150	5.570+01	2.428+06	1.129-06	1.036-06
64	116	1.275+02	1.728+04	3.009-08	8.842-08	65	151	5.570+01	7.798+07	5.077-05	4.655-05
64	117	1.273+02	1.423+06	3.456-06	1.014-05	65	153	5.567+01	2.872+08	1.868-04	1.711-04
64	124	1.222+02	1.691+06	3.787-06	1.067-05	66	68	2.802+03	1.940+04	1.631-05	1.053-03
64	125	1.222+02	5.289+07	1.522-04	4.286-04	66	69	2.652+03	4.580+03	3.448-06	2.107-04
64	126	1.222+02	1.536+07	4.419-05	1.244-04	66	70	2.486+03	3.034+03	2.812-06	1.611-04
64	130	1.120+02	1.099+08	1.477-04	3.813-04	66	76	1.786+02	2.459+05	8.406-07	3.461-06
64	136	9.247+01	8.938+09	8.184-03	1.744-02	66	88	1.471+02	1.058+07	4.414-05	1.496-04
64	137	9.245+01	2.971+10	3.807-02	8.112-02	66	89	1.469+02	1.021+08	2.359-04	7.987-04
64	138	9.242+01	1.861+10	3.064-02	6.525-02	66	90	1.469+02	8.490+08	2.745-03	9.290-03
64	139	9.232+01	1.051+10	1.343-02	2.858-02	66	91	1.463+02	6.743+09	1.546-02	5.215-02
64	144	5.871+01	6.081+07	2.244-05	3.036-05	66	92	1.460+02	2.340+07	7.479-05	2.517-04
64	150	5.569+01	1.841+07	6.113-06	7.845-06	66	102	1.401+02	5.245+08	1.102-03	3.556-03
64	151	5.568+01	3.373+07	1.568-05	2.012-05	66	103	1.400+02	2.492+09	7.323-03	2.363-02
64	152	5.568+01	4.920+08	2.940-04	3.772-04	66	106	1.398+02	3.258+10	9.539-02	3.072-01
64	153	5.565+01	6.501+05	3.019-07	3.871-07	66	107	1.397+02	1.531+10	5.762-02	1.855-01
65	68	2.781+03	2.790+04	3.235-05	1.481-03	66	108	1.396+02	3.121+11	1.173-00	3.774-00
65	69	2.633+03	1.547+03	1.608-06	6.968-05	66	115	1.278+02	5.229+03	9.141-09	2.691-08
65	70	2.469+03	2.257+01	2.888-08	1.174-06	66	116	1.276+02	1.514+02	2.641-10	7.766-10
65	71	1.706+03	6.224+06	1.629-03	4.573-02	66	117	1.274+02	9.575+05	2.330-06	6.840-06
65	76	1.786+02	3.507+04	1.676-07	4.927-07	66	124	1.223+02	1.238+08	2.777-04	7.830-04
65	77	1.777+02	1.059+07	3.008-05	8.801-05	66	125	1.223+02	1.370+06	3.950-06	1.113-05
65	85	1.507+02	1.301+07	2.660-05	6.600-05	66	126	1.223+02	1.646+08	4.741-04	1.336-03
65	87	1.475+02	1.129+09	2.208-03	5.360-03	66	130	1.121+02	7.240+06	9.744-06	2.518-05
65	89	1.469+02	1.495+08	4.834-04	1.169-03	66	136	9.253+01	2.376+10	2.178-02	4.645-02
65	90	1.468+02	1.640+07	7.417-05	1.792-04	66	137	9.251+01	4.700+09	6.031-03	1.286-02
65	91	1.463+02	1.216+09	3.899-03	9.389-03	66	138	9.248+01	4.072+09	6.712-03	1.430-02
65	92	1.460+02	3.987+07	1.783-04	4.284-04	66	139	9.238+01	2.487+10	3.182-02	6.774-02
65	93	1.434+02	5.034+09	9.314-03	2.199-02	66	144	5.873+01	4.016+06	1.484-06	2.008-06
65	102	1.400+02	2.190+10	6.437-02	1.484-01	66	150	5.571+01	1.317+08	4.378-05	5.620-05
65	103	1.400+02	3.293+10	1.354-01	3.120-01	66	151	5.571+01	2.833+07	1.318-05	1.692-05
65	106	1.397+02	2.747+11	1.125-00	2.588-00	66	152	5.570+01	2.670+07	1.597-05	2.050-05
65	115	1.277+02	2.516+06	6.152-06	1.294-05	66	153	5.567+01	1.167+05	5.422-08	6.957-08
65	116	1.276+02	2.972+05	7.252-07	1.523-06	67	70	2.525+03	1.394+02	1.036-07	7.750-06
65	117	1.274+02	1.096+06	3.731-06	7.821-06	67	88	1.472+02	8.008+08	2.602-03	1.135-02
65	118	1.261+02	6.878+06	9.836-06	2.041-05	67	90	1.470+02	2.828+08	7.124-04	3.102-03
65	124	1.223+02	6.582+06	2.066-05	4.158-05	67	92	1.462+02	6.015+09	1.498-02	6.488-02
65	129	1.130+02	2.403+07	2.762-05	5.139-05	67	103	1.401+02	1.554+09	3.558-03	1.477-02

Table 2. Transition energies ($\AA$), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric dipole (E1) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
67	104	1.400+02	6.984+08	2.508-03	1.040-02	69	72	1.625+03	2.303+06	1.276-03	3.412-02
67	106	1.399+02	1.356+09	3.093-03	1.282-02	69	74	1.576+03	1.881+08	9.805-02	2.544-00
67	107	1.399+02	4.888+10	1.433-01	5.939-01	69	75	1.574+03	1.385+07	5.143-03	1.332-01
67	108	1.398+02	4.006+09	1.173-02	4.857-02	69	78	1.747+02	8.751+06	2.403-05	6.912-05
67	109	1.397+02	3.275+11	1.172-00	4.850-00	69	79	1.736+02	2.201+07	9.937-05	2.839-04
67	117	1.275+02	3.915+05	7.421-07	2.804-06	69	80	1.727+02	2.472+07	1.548-04	4.401-04
67	124	1.224+02	2.271+06	3.969-06	1.440-05	69	81	1.722+02	2.080+07	5.550-05	1.574-04
67	125	1.224+02	1.260+08	2.831-04	1.026-03	69	82	1.716+02	8.932+07	3.941-04	1.113-03
67	126	1.223+02	1.396+06	3.133-06	1.136-05	69	94	1.487+02	1.723+08	3.427-04	8.389-04
67	127	1.223+02	1.474+08	4.042-04	1.465-03	69	95	1.485+02	5.879+08	1.944-03	4.751-03
67	137	9.257+01	1.321+10	1.319-02	3.619-02	69	98	1.481+02	7.542+08	3.473-03	8.469-03
67	138	9.253+01	2.814+10	3.612-02	9.902-02	69	99	1.480+02	1.262+07	4.141-05	1.009-04
67	139	9.243+01	1.558+10	1.552-02	4.250-02	69	100	1.480+02	9.872+05	4.536-06	1.105-05
67	151	5.572+01	3.230+07	1.169-05	1.931-05	69	110	1.476+02	7.484+08	1.466-03	3.563-03
67	152	5.572+01	7.352+06	3.422-06	5.650-06	69	111	1.468+02	3.310+10	6.420-02	1.552-01
67	153	5.569+01	1.211+08	4.379-05	7.226-05	69	112	1.464+02	2.233+09	7.174-03	1.729-02
68	72	1.573+03	1.891+08	9.817-02	2.542-00	69	114	1.351+02	7.060+08	1.159-03	2.577-03
68	74	1.527+03	6.624+05	3.243-04	8.155-03	69	120	1.287+02	6.233+08	2.168-03	4.595-03
68	75	1.525+03	1.936+07	6.751-03	1.695-01	69	121	1.287+02	1.966+11	6.830-01	1.447-00
68	78	1.741+02	1.399+06	3.816-06	1.094-05	69	123	1.286+02	1.447+10	3.588-02	7.596-02
68	79	1.729+02	9.276+06	4.159-05	1.184-04	69	132	1.019+02	2.174+08	2.032-04	3.410-04
68	80	1.721+02	2.854+04	1.775-07	5.029-07	69	133	1.019+02	3.814+09	5.935-03	9.953-03
68	81	1.716+02	3.624+07	9.603-05	2.713-04	69	134	1.018+02	1.923+10	4.181-02	7.004-02
68	82	1.710+02	1.362+06	5.970-06	1.680-05	69	135	1.003+02	7.131+09	1.076-02	1.777-02
68	94	1.483+02	1.418+09	2.804-03	6.843-03	69	140	6.222+01	7.027+06	2.447-06	2.506-06
68	95	1.481+02	1.611+07	5.293-05	1.290-04	69	146	5.792+01	2.292+07	6.918-06	6.596-06
68	98	1.477+02	3.065+07	1.403-04	3.411-04	69	147	5.791+01	9.495+05	4.774-07	4.551-07
68	99	1.475+02	1.045+08	3.410-04	8.282-04	69	148	5.790+01	2.503+06	1.761-06	1.678-06
68	100	1.475+02	2.345+08	1.071-03	2.600-03	69	149	5.767+01	1.656+05	8.255-08	7.835-08
68	110	1.472+02	3.131+10	6.100-02	1.478-01	69	154	5.680+01	1.675+05	1.134-07	1.061-07
68	111	1.464+02	2.616+09	5.044-03	1.215-02	70	72	1.694+03	8.553+06	3.678-03	1.436-01
68	112	1.459+02	3.208+09	1.024-02	2.461-02	70	73	1.668+03	1.690+08	9.067-02	3.486-00
68	114	1.347+02	1.441+07	2.352-05	5.215-05	70	74	1.641+03	1.028+07	4.152-03	1.570-01
68	120	1.284+02	1.975+11	6.834-01	1.444-00	70	75	1.638+03	7.036+05	2.023-04	7.638-03
68	121	1.283+02	2.076+06	7.177-06	1.516-05	70	79	1.743+02	2.998+07	9.755-05	3.918-04
68	123	1.283+02	1.781+10	4.393-02	9.274-02	70	80	1.735+02	1.760+07	7.942-05	3.175-04
68	132	1.017+02	2.815+10	2.620-02	4.387-02	70	82	1.723+02	6.916+05	2.199-06	8.730-06
68	133	1.017+02	1.288+10	1.996-02	3.340-02	70	95	1.491+02	3.060+08	7.281-04	2.501-03
68	134	1.016+02	6.769+07	1.466-04	2.450-04	70	97	1.490+02	2.761+08	1.181-03	4.056-03
68	135	1.001+02	7.375+09	1.108-02	1.827-02	70	98	1.487+02	6.944+07	2.301-04	7.885-04
68	140	6.214+01	1.333+05	4.630-08	4.736-08	70	99	1.485+02	1.424+07	3.364-05	1.151-04
68	146	5.785+01	4.663+08	1.404-04	1.337-04	70	100	1.485+02	4.944+07	1.635-04	5.594-04
68	147	5.785+01	3.681+07	1.846-05	1.758-05	70	101	1.484+02	2.485+07	1.056-04	3.610-04
68	148	5.783+01	6.364+05	4.467-07	4.252-07	70	112	1.469+02	3.356+10	7.757-02	2.626-01
68	149	5.760+01	2.562+04	1.274-08	1.208-08	70	120	1.292+02	1.252+10	3.131-02	9.320-02
68	154	5.673+01	6.323+06	4.271-06	3.989-06	70	121	1.291+02	1.030+10	2.574-02	7.656-02

Table 2. Transition energies ($\AA$), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric dipole (E1) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
70	122	1.291+02	2.113+11	6.786-01	2.019-00	72	115	1.463+02	7.350+09	1.685-02	5.682-02
70	123	1.290+02	9.516+08	1.696-03	5.043-03	72	116	1.461+02	1.764+08	4.034-04	1.359-03
70	133	1.021+02	7.878+09	8.801-03	2.072-02	72	117	1.458+02	2.982+08	9.511-04	3.197-03
70	134	1.020+02	1.730+10	2.700-02	6.349-02	72	124	1.392+02	1.294+10	3.762-02	1.207-01
70	135	1.006+02	1.999+10	2.166-02	5.020-02	72	125	1.392+02	3.762+09	1.405-02	4.507-02
70	147	5.800+01	2.230+08	8.031-05	1.073-04	72	126	1.391+02	3.428+11	1.279-00	4.102-00
70	148	5.798+01	5.606+06	2.825-06	3.775-06	72	130	1.262+02	1.304+05	2.222-07	6.461-07
70	149	5.775+01	2.018+08	7.205-05	9.589-05	72	136	1.019+02	2.588+10	2.877-02	6.755-02
70	154	5.688+01	3.169+05	1.537-07	2.015-07	72	137	1.019+02	1.437+10	2.235-02	5.248-02
70	155	5.688+01	1.250+05	7.797-08	1.022-07	72	138	1.018+02	1.692+08	3.382-04	7.935-04
70	157	5.687+01	1.189+07	7.415-06	9.719-06	72	139	1.017+02	3.727+09	5.779-03	1.355-02
71	75	2.331+03	4.846+07	6.580-02	1.515-00	72	144	6.237+01	1.095+05	4.563-08	6.558-08
71	78	1.813+02	5.803+07	2.859-04	5.118-04	72	150	5.897+01	3.822+08	1.423-04	1.934-04
71	79	1.800+02	1.201+07	9.720-05	1.728-04	72	151	5.897+01	2.167+07	1.130-05	1.535-05
71	81	1.786+02	1.163+09	5.560-03	9.807-03	72	152	5.896+01	2.227+05	1.492-07	2.027-07
71	82	1.779+02	2.016+06	1.594-05	2.799-05	72	153	5.893+01	1.503+06	7.824-07	1.063-06
71	83	1.723+02	1.078+08	1.598-04	2.720-04	73	88	1.725+02	1.860+06	8.300-06	4.243-05
71	94	1.534+02	7.118+08	2.512-03	3.806-03	73	90	1.722+02	1.717+06	5.936-06	3.029-05
71	95	1.532+02	2.828+09	1.658-02	2.509-02	73	92	1.710+02	3.738+06	1.275-05	6.462-05
71	99	1.526+02	6.294+09	3.664-02	5.523-02	73	103	1.629+02	3.685+07	1.140-04	5.500-04
71	110	1.522+02	8.905+09	3.094-02	4.652-02	73	104	1.627+02	5.062+06	2.454-05	1.183-04
71	111	1.514+02	3.080+09	1.059-02	1.584-02	73	106	1.625+02	1.597+05	4.918-07	2.368-06
71	112	1.509+02	3.544+08	2.017-03	3.007-03	73	107	1.625+02	1.869+07	7.395-05	3.560-04
71	113	1.487+02	4.035+10	4.459-02	6.548-02	73	108	1.623+02	3.818+06	1.509-05	7.256-05
71	114	1.390+02	1.355+08	3.923-04	5.384-04	73	109	1.623+02	1.080+08	5.214-04	2.507-03
71	119	1.358+02	3.127+05	2.882-07	3.865-07	73	117	1.460+02	7.165+09	1.782-02	7.710-02
71	123	1.321+02	1.715+11	7.481-01	9.761-01	73	124	1.394+02	4.425+08	1.003-03	4.141-03
71	132	1.041+02	5.021+09	8.161-03	8.393-03	73	125	1.394+02	1.363+10	3.969-02	1.639-01
71	133	1.041+02	7.749+09	2.097-02	2.155-02	73	126	1.393+02	8.010+09	2.331-02	9.622-02
71	135	1.025+02	9.793+09	2.569-02	2.599-02	73	127	1.393+02	3.567+11	1.268-00	5.233-00
71	140	6.303+01	1.401+06	8.344-07	5.194-07	73	137	1.020+02	5.899+09	7.151-03	2.160-02
71	141	6.268+01	6.205+03	1.218-09	7.542-10	73	138	1.019+02	1.697+10	2.642-02	7.978-02
71	146	5.862+01	2.603+06	1.341-06	7.765-07	73	139	1.018+02	1.965+10	2.375-02	7.163-02
71	147	5.861+01	1.245+06	1.068-06	6.185-07	73	151	5.900+01	1.364+08	5.535-05	9.675-05
71	149	5.836+01	1.069+08	9.099-05	5.245-05	73	152	5.899+01	6.600+06	3.444-06	6.019-06
72	76	2.172+02	7.668+03	3.873-08	1.938-07	73	153	5.896+01	2.481+08	1.006-04	1.757-04
72	88	1.722+02	6.486+04	3.709-07	1.472-06	74	76	2.181+02	2.473+06	1.259-05	6.329-05
72	89	1.720+02	2.758+04	8.737-08	3.463-07	74	88	1.728+02	1.423+05	8.191-07	3.262-06
72	90	1.719+02	7.356+05	3.260-06	1.291-05	74	89	1.726+02	4.770+06	1.521-05	6.048-05
72	91	1.712+02	4.548+05	1.428-06	5.632-06	74	90	1.725+02	2.702+06	1.205-05	4.789-05
72	92	1.708+02	1.172+04	5.124-08	2.017-07	74	91	1.718+02	2.790+05	8.816-07	3.489-06
72	102	1.627+02	3.537+07	1.002-04	3.758-04	74	92	1.713+02	5.812+06	2.558-05	1.010-04
72	103	1.626+02	1.378+06	5.463-06	2.047-05	74	102	1.632+02	2.280+06	6.501-06	2.445-05
72	106	1.623+02	1.990+07	7.855-05	2.937-04	74	103	1.631+02	2.291+07	9.139-05	3.436-04
72	107	1.622+02	1.268+05	6.433-07	2.405-06	74	106	1.628+02	6.170+06	2.451-05	9.193-05
72	108	1.621+02	1.299+08	6.581-04	2.458-03	74	107	1.627+02	1.381+08	7.051-04	2.644-03

Table 2. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric dipole (E1) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
74	108	1.626+02	2.838+05	1.447-06	5.420-06	76	78	1.988+03	3.307+08	1.176-01	3.849-00
74	115	1.467+02	7.250+07	1.672-04	5.652-04	76	79	1.845+03	1.916+08	9.782-02	2.971-00
74	116	1.466+02	7.527+09	1.731-02	5.846-02	76	80	1.758+03	4.878+08	3.165-01	9.158-00
74	117	1.462+02	3.341+08	1.071-03	3.611-03	76	81	1.708+03	1.026+07	2.692-03	7.570-02
74	124	1.396+02	1.477+10	4.316-02	1.389-01	76	82	1.643+03	3.182+08	1.288-01	3.484-00
74	125	1.396+02	3.324+11	1.248-00	4.014-00	76	94	6.647+02	5.491+04	2.182-06	2.388-05
74	126	1.395+02	6.276+09	2.355-02	7.571-02	76	95	6.606+02	8.014+05	5.243-05	5.701-04
74	130	1.264+02	6.102+07	1.045-04	3.045-04	76	98	6.532+02	1.593+06	1.427-04	1.534-03
74	136	1.021+02	2.464+08	2.750-04	6.469-04	76	99	6.503+02	7.939+03	5.034-07	5.389-06
74	137	1.021+02	7.208+08	1.126-03	2.648-03	76	100	6.500+02	2.118+04	1.879-06	2.010-05
74	138	1.020+02	3.760+10	7.544-02	1.774-01	76	110	6.432+02	2.856+06	1.063-04	1.125-03
74	139	1.019+02	8.529+09	1.328-02	3.118-02	76	111	6.288+02	2.377+07	8.453-04	8.750-03
74	144	6.244+01	5.212+07	2.176-05	3.132-05	76	112	6.207+02	1.574+06	9.090-05	9.287-04
74	150	5.903+01	5.877+06	2.193-06	2.984-06	76	114	4.582+02	4.813+07	9.090-04	6.856-03
74	151	5.903+01	4.462+07	2.331-05	3.171-05	76	120	3.926+02	3.359+04	1.086-06	7.021-06
74	152	5.903+01	3.749+08	2.518-04	3.425-04	76	121	3.919+02	2.475+06	7.980-05	5.148-04
74	153	5.900+01	2.439+06	1.273-06	1.731-06	76	123	3.913+02	2.302+05	5.284-06	3.403-05
75	76	2.181+02	1.552+05	1.107-06	3.974-06	76	132	2.179+02	1.662+05	7.096-07	2.545-06
75	77	2.169+02	5.390+06	2.280-05	8.139-05	76	133	2.176+02	1.399+06	9.932-06	3.558-05
75	85	1.780+02	6.060+04	1.727-07	5.059-07	76	134	2.171+02	6.140+06	6.077-05	2.172-04
75	87	1.734+02	7.502+06	2.029-05	5.793-05	76	135	2.107+02	1.811+03	1.205-08	4.180-08
75	89	1.726+02	8.967+04	4.004-07	1.138-06	76	140	9.216+01	8.694+10	6.641-02	1.007-01
75	90	1.725+02	7.317+05	4.570-06	1.298-05	76	146	8.303+01	2.567+06	1.592-06	2.176-06
75	91	1.718+02	3.802+06	1.682-05	4.757-05	76	147	8.301+01	1.988+07	2.054-05	2.807-05
75	92	1.714+02	1.592+04	9.813-08	2.768-07	76	148	8.297+01	6.124+07	8.849-05	1.209-04
75	93	1.679+02	2.429+08	6.157-04	1.701-03	76	149	8.250+01	3.184+05	3.249-07	4.412-07
75	102	1.632+02	2.110+07	8.428-05	2.264-04	76	154	8.074+01	1.234+01	1.688-11	2.243-11
75	103	1.631+02	1.322+07	7.388-05	1.984-04	77	78	2.099+03	6.008+06	3.969-03	8.229-02
75	106	1.628+02	6.457+07	3.592-04	9.626-04	77	79	1.940+03	1.968+08	1.852-01	3.549-00
75	115	1.468+02	5.685+08	1.835-03	4.434-03	77	81	1.789+03	4.335+08	2.081-01	3.677-00
75	116	1.466+02	3.789+08	1.220-03	2.944-03	77	82	1.718+03	2.391+08	1.764-01	2.993-00
75	117	1.463+02	2.586+06	1.161-05	2.795-05	77	83	1.308+03	1.211+09	1.036-01	1.338-00
75	118	1.446+02	7.100+09	1.335-02	3.178-02	77	94	6.766+02	4.452+05	3.056-05	2.042-04
75	124	1.396+02	3.220+11	1.317-00	3.027-00	77	95	6.724+02	2.464+05	2.783-05	1.848-04
75	129	1.277+02	2.604+07	3.818-05	8.025-05	77	99	6.618+02	6.231+06	6.819-04	4.457-03
75	130	1.265+02	4.472+06	1.072-05	2.232-05	77	110	6.544+02	3.738+04	2.400-06	1.551-05
75	131	1.257+02	9.825+05	1.396-06	2.888-06	77	111	6.395+02	1.377+05	8.441-06	5.331-05
75	136	1.021+02	7.460+09	1.166-02	1.959-02	77	112	6.311+02	6.485+05	6.453-05	4.022-04
75	137	1.021+02	2.509+10	5.486-02	9.218-02	77	113	5.937+02	2.736+08	4.820-03	2.826-02
75	139	1.019+02	9.346+09	2.037-02	3.418-02	77	114	4.639+02	1.319+07	4.255-04	1.949-03
75	143	6.260+01	2.723+07	9.597-06	9.888-06	77	119	4.304+02	1.532+08	1.418-03	6.029-03
75	144	6.245+01	3.765+06	2.201-06	2.263-06	77	123	3.954+02	9.382+06	3.665-04	1.431-03
75	145	6.235+01	1.359+06	4.751-07	4.877-07	77	132	2.191+02	9.923+05	7.143-06	1.546-05
75	150	5.904+01	3.083+07	1.611-05	1.566-05	77	133	2.189+02	1.679+06	2.010-05	4.344-05
75	151	5.904+01	1.771+08	1.296-04	1.259-04	77	135	2.119+02	6.909+05	7.749-06	1.622-05
75	153	5.900+01	1.054+08	7.698-05	7.476-05	77	140	9.238+01	1.819+10	2.327-02	2.123-02

Table 2. Transition energies ($\AA$), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric dipole (E1) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
77	141	9.163+01	9.043+10	3.794-02	3.434-02	79	143	9.218+01	7.840+10	5.992-02	9.091-02
77	146	8.321+01	1.900+07	1.973-05	1.621-05	79	144	9.186+01	1.791+08	2.266-04	3.426-04
77	147	8.319+01	1.478+07	2.555-05	2.100-05	79	145	9.165+01	5.558+09	4.200-03	6.336-03
77	149	8.268+01	1.114+08	1.903-04	1.554-04	79	150	8.467+01	2.856+05	3.069-07	4.277-07
78	84	1.928+03	8.145+06	1.512-03	2.879-02	79	151	8.466+01	6.673+06	1.004-05	1.399-05
78	85	1.884+03	4.578+06	2.435-03	4.530-02	79	153	8.458+01	1.328+07	1.994-05	2.777-05
78	86	1.515+03	8.661+08	9.931-02	1.486-00	80	88	1.582+03	7.944+08	3.835-01	1.398+01
78	87	1.474+03	7.198+08	2.344-01	3.412-00	80	89	1.562+03	3.822+07	9.980-03	3.591-01
78	89	1.416+03	3.647+08	1.827-01	2.555-00	80	90	1.555+03	1.286+08	4.660-02	1.669-00
78	91	1.364+03	2.878+07	1.338-02	1.803-01	80	91	1.499+03	1.317+07	3.168-03	1.094-01
78	93	1.150+03	8.543+02	1.694-07	1.924-06	80	92	1.466+03	1.831+08	5.901-02	1.994-00
78	102	9.621+02	1.091+02	2.522-08	2.397-07	80	102	1.027+03	6.265+01	7.078-09	1.675-07
78	115	5.792+02	5.343+05	4.479-05	2.562-04	80	103	1.025+03	2.443+02	3.847-08	9.087-07
78	116	5.763+02	8.404+06	6.976-04	3.971-03	80	106	1.011+03	1.484+03	2.275-07	5.301-06
78	118	5.470+02	6.000+05	2.692-05	1.454-04	80	107	1.010+03	1.424+04	2.798-06	6.510-05
78	128	3.661+02	2.713+07	1.817-04	6.569-04	80	108	1.005+03	1.253+02	2.438-08	5.644-07
78	129	3.644+02	2.859+07	5.692-04	2.049-03	80	115	6.022+02	2.258+03	8.767-08	1.217-06
78	130	3.547+02	1.991+07	6.259-04	2.193-03	80	116	5.991+02	5.167+06	1.986-04	2.742-03
78	131	3.486+02	6.299+06	1.148-04	3.951-04	80	117	5.941+02	2.378+06	1.258-04	1.723-03
78	136	2.125+02	3.373+05	3.805-06	7.983-06	80	124	4.978+02	7.678+03	2.852-07	3.272-06
78	142	9.190+01	7.495+10	3.163-02	2.871-02	80	125	4.974+02	1.726+05	8.232-06	9.435-05
78	143	9.185+01	2.062+10	2.608-02	2.365-02	80	126	4.968+02	1.290+03	6.137-08	7.025-07
78	144	9.153+01	3.624+09	7.587-03	6.858-03	80	130	3.632+02	2.812+07	3.971-04	3.324-03
78	145	9.132+01	6.059+09	7.576-03	6.834-03	80	136	2.155+02	1.277+05	6.348-07	3.152-06
78	150	8.439+01	7.230+04	1.287-07	1.072-07	80	137	2.154+02	3.163+06	2.200-05	1.092-04
79	85	2.033+03	9.976+04	3.708-05	1.241-03	80	138	2.152+02	2.971+07	2.651-04	1.315-03
79	87	1.564+03	8.086+07	1.778-02	4.578-01	80	139	2.147+02	1.180+05	8.155-07	4.034-06
79	89	1.499+03	8.650+07	2.912-02	7.184-01	80	144	9.208+01	7.288+10	6.618-02	1.404-01
79	90	1.492+03	7.898+08	3.692-01	9.068-00	80	150	8.486+01	3.045+03	2.348-09	4.592-09
79	91	1.441+03	3.306+08	1.029-01	2.440-00	80	151	8.485+01	4.303+05	4.645-07	9.083-07
79	92	1.411+03	9.323+06	3.894-03	9.042-02	80	152	8.484+01	9.886+06	1.372-05	2.681-05
79	93	1.204+03	3.461+07	4.513-03	8.945-02	80	153	8.478+01	8.635+04	9.304-08	1.818-07
79	102	9.996+02	1.281+03	1.919-07	3.157-06	81	84	2.292+03	7.297+04	1.916-05	4.338-04
79	103	9.975+02	1.645+05	3.436-05	5.641-04	81	85	2.230+03	8.661+05	6.458-04	1.422-02
79	106	9.844+02	4.758+04	9.678-06	1.568-04	81	86	1.731+03	1.119+07	1.676-03	2.865-02
79	115	5.926+02	4.197+05	2.210-05	2.156-04	81	87	1.678+03	2.791+06	1.178-03	1.952-02
79	116	5.896+02	3.211+06	1.673-04	1.624-03	81	89	1.603+03	7.419+07	4.765-02	7.544-01
79	117	5.848+02	6.214+03	4.460-07	4.293-06	81	91	1.537+03	5.570+08	3.289-01	4.993-00
79	118	5.589+02	3.536+06	9.937-05	9.142-04	81	93	1.271+03	6.699+08	1.621-01	2.035-00
79	124	4.912+02	1.314+02	6.652-09	5.379-08	81	102	1.045+03	2.867+03	7.823-07	8.074-06
79	129	3.697+02	1.160+07	1.426-04	8.676-04	81	115	6.083+02	6.699+04	6.194-06	3.721-05
79	130	3.597+02	6.460+06	1.253-04	7.418-04	81	116	6.051+02	1.034+05	9.457-06	5.652-05
79	131	3.534+02	6.408+04	7.199-07	4.188-06	81	118	5.729+02	5.863+07	2.885-03	1.632-02
79	136	2.142+02	2.502+06	1.722-05	6.071-05	81	128	3.775+02	8.677+06	6.178-05	2.303-04
79	137	2.141+02	1.633+07	1.572-04	5.540-04	81	129	3.757+02	1.447+04	3.062-07	1.136-06
79	139	2.134+02	8.035+05	7.682-06	2.699-05	81	130	3.654+02	6.042+06	2.016-04	7.275-04

Table 2. Transition energies ($\AA$), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric dipole (E1) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
81	131	3.589+02	1.088+05	2.101-06	7.446-06	84	132	2.802+02	9.642+06	3.406-04	3.142-04
81	136	2.162+02	4.199+06	4.906-05	1.048-04	84	140	1.017+02	1.333+10	6.205-02	2.078-02
81	142	9.260+01	2.797+10	1.199-02	1.096-02	84	146	9.072+01	3.768+08	1.395-03	4.166-04
81	143	9.255+01	1.945+08	2.498-04	2.283-04	85	94	2.125+03	1.594+06	1.079-03	2.265-02
81	144	9.222+01	3.987+09	8.473-03	7.718-03	85	95	2.084+03	1.392+05	1.510-04	3.107-03
81	145	9.202+01	3.268+10	4.148-02	3.770-02	85	99	1.985+03	1.164+06	1.146-03	2.247-02
81	150	8.498+01	9.215+05	1.663-06	1.395-06	85	110	1.920+03	2.721+08	1.504-01	2.851-00
82	85	2.351+03	6.358+05	3.162-04	1.224-02	85	111	1.797+03	1.039+08	5.029-02	8.926-01
82	87	1.746+03	8.373+07	2.295-02	6.595-01	85	112	1.732+03	5.046+08	3.783-01	6.472-00
82	89	1.665+03	2.951+08	1.226-01	3.361-00	85	113	1.477+03	8.116+08	8.849-02	1.291-00
82	90	1.657+03	5.807+06	3.347-03	9.130-02	85	114	8.707+02	4.088+07	4.646-03	3.995-02
82	91	1.594+03	2.012+06	7.662-04	2.010-02	85	119	7.597+02	6.947+07	2.004-03	1.503-02
82	92	1.557+03	6.738+08	3.429-01	8.789-00	85	123	6.571+02	1.946+04	2.099-06	1.362-05
82	93	1.309+03	3.385+06	5.218-04	1.124-02	85	132	2.812+02	4.325+06	5.127-05	1.424-04
82	102	1.071+03	6.965-00	1.198-09	2.111-08	85	133	2.808+02	8.839+06	1.741-04	4.829-04
82	103	1.068+03	8.681+04	2.080-05	3.659-04	85	135	2.694+02	2.446+03	4.433-08	1.179-07
82	106	1.054+03	5.868+04	1.367-05	2.370-04	85	140	1.019+02	2.581+10	4.015-02	4.039-02
82	115	6.170+02	4.604+05	2.628-05	2.669-04	85	141	1.009+02	3.569+10	1.818-02	1.812-02
82	116	6.137+02	8.645+06	4.882-04	4.932-03	85	146	9.082+01	1.676+08	2.073-04	1.859-04
82	117	6.085+02	1.822+04	1.416-06	1.419-05	85	147	9.080+01	3.820+08	7.870-04	7.057-04
82	118	5.806+02	1.283+06	3.890-05	3.718-04	85	149	9.019+01	3.916+08	7.960-04	7.091-04
82	124	5.078+02	3.094+04	1.675-06	1.400-05	86	94	2.930+03	5.147+07	1.987-01	1.916-00
82	129	3.790+02	2.406+06	3.109-05	1.939-04	86	110	2.554+03	1.154+06	3.384-03	2.845-02
82	130	3.685+02	4.253+06	8.658-05	5.252-04	86	111	2.341+03	1.172+06	2.888-03	2.225-02
82	131	3.619+02	4.998+05	5.889-06	3.509-05	86	114	9.811+02	1.738+06	7.522-04	2.430-03
82	136	2.173+02	4.023+03	2.849-08	1.019-07	86	132	2.918+02	1.097+08	4.202-03	4.037-03
82	137	2.172+02	2.304+04	2.282-07	8.159-07	86	140	1.032+02	9.717+06	4.656-05	1.582-05
82	139	2.165+02	2.357+06	2.319-05	8.266-05	86	146	9.190+01	1.511+10	5.738-02	1.736-02
82	143	9.275+01	3.147+09	2.435-03	3.718-03	87	94	3.096+03	4.244+07	6.097-02	1.864-00
82	144	9.242+01	2.264+10	2.900-02	4.411-02	87	95	3.009+03	5.018+07	1.135-01	3.372-00
82	145	9.221+01	3.763+10	2.878-02	4.369-02	87	99	2.807+03	9.636+06	1.897-02	5.260-01
82	150	8.514+01	2.957+02	3.214-10	4.504-10	87	110	2.679+03	4.218+05	4.538-04	1.201-02
82	151	8.514+01	3.155+05	4.800-07	6.727-07	87	111	2.446+03	1.933+06	1.733-03	4.187-02
82	153	8.506+01	1.321+07	2.007-05	2.810-05	87	112	2.327+03	3.127+05	4.231-04	9.725-03
83	85	4.116+03	6.030+03	4.595-05	6.227-04	87	113	1.889+03	4.265+06	7.603-04	1.418-02
83	87	2.561+03	1.331+06	3.926-03	3.310-02	87	114	9.991+02	5.158+06	7.718-04	7.615-03
83	93	1.720+03	3.199+08	4.255-01	2.409-00	87	119	8.556+02	8.522+04	3.118-06	2.635-05
83	118	6.493+02	3.474+07	6.588-03	1.408-02	87	123	7.276+02	4.602+06	6.088-04	4.376-03
83	129	4.072+02	1.806+07	1.347-03	1.805-03	87	132	2.934+02	1.082+08	1.396-03	4.044-03
83	131	3.875+02	7.930+07	5.355-03	6.832-03	87	133	2.929+02	9.837+07	2.109-03	6.101-03
83	143	9.434+01	2.054+09	8.222-03	2.554-03	87	135	2.805+02	5.347+05	1.051-05	2.912-05
83	145	9.379+01	1.328+10	5.253-02	1.622-02	87	140	1.034+02	2.844+06	4.560-06	4.657-06
84	94	2.071+03	1.134+06	2.189-03	1.493-02	87	141	1.025+02	1.881+08	9.871-05	9.990-05
84	110	1.876+03	9.691+07	1.534-01	9.475-01	87	146	9.206+01	3.029+10	3.848-02	3.499-02
84	111	1.759+03	3.590+08	4.994-01	2.891-00	87	147	9.203+01	8.763+09	1.855-02	1.686-02
84	114	8.616+02	2.404+07	8.027-03	2.277-02	87	149	9.141+01	2.399+08	5.010-04	4.523-04

Table 2. Transition energies ($\AA$), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric dipole (E1) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
88	96	3.165+03	8.780+07	1.612-01	1.511+01	90	123	7.442+02	1.140+05	6.764-06	1.160-04
88	97	3.164+03	3.528+06	5.293-03	4.961-01	90	133	2.956+02	1.225+07	1.146-04	7.807-04
88	98	3.029+03	1.177+06	1.260-03	1.131-01	90	134	2.947+02	8.704+06	1.133-04	7.698-04
88	100	2.960+03	3.814+05	3.898-04	3.419-02	90	135	2.829+02	6.680+06	5.726-05	3.733-04
88	101	2.930+03	1.407+07	1.811-02	1.572-00	90	147	9.229+01	5.119+10	4.670-02	9.932-02
88	120	7.426+02	8.951+03	5.756-07	1.266-05	90	148	9.225+01	5.141+06	6.559-06	1.395-05
88	121	7.403+02	7.312+03	4.672-07	1.025-05	90	149	9.167+01	2.153+10	1.937-02	4.092-02
88	122	7.398+02	1.938+05	1.590-05	3.485-04	90	154	8.950+01	5.572+05	6.691-07	1.380-06
88	134	2.937+02	2.998+07	3.016-04	2.625-03	90	155	8.950+01	4.681+05	7.227-07	1.491-06
88	148	9.215+01	6.780+10	6.714-02	1.833-01	90	157	8.948+01	6.546+05	1.010-06	2.083-06
88	154	8.940+01	7.729+03	7.204-09	1.908-08	91	94	3.724+03	7.024+05	8.764-04	5.373-02
88	155	8.941+01	1.716+04	2.056-08	5.447-08	91	95	3.599+03	3.565+05	6.923-04	4.101-02
88	156	8.939+01	1.235+05	1.808-07	4.790-07	91	98	3.392+03	7.242+05	1.749-03	9.763-02
88	157	8.939+01	1.748+05	2.094-07	5.546-07	91	99	3.315+03	1.504+07	2.477-02	1.352-00
89	94	3.387+03	3.557+06	3.670-03	2.046-01	91	100	3.306+03	6.406+07	1.469-01	7.994-00
89	95	3.283+03	2.596+07	4.194-02	2.266-00	91	110	3.137+03	7.460+04	6.604-05	3.410-03
89	98	3.109+03	6.727+07	1.365-01	6.987-00	91	111	2.822+03	1.632+04	1.169-05	5.432-04
89	99	3.044+03	1.294+06	1.799-03	9.014-02	91	112	2.665+03	9.682+03	1.031-05	4.524-04
89	100	3.037+03	2.469+03	4.780-06	2.389-04	91	114	1.057+03	1.537+05	1.544-05	2.686-04
89	110	2.894+03	2.948+05	2.221-04	1.058-02	91	120	7.626+02	7.599+05	9.275-05	1.164-03
89	111	2.624+03	3.870+04	2.397-05	1.035-03	91	121	7.601+02	2.883+04	3.497-06	4.375-05
89	112	2.488+03	6.740+05	6.254-04	2.561-02	91	123	7.577+02	1.289+06	1.109-04	1.384-03
89	114	1.028+03	8.364+06	7.944-04	1.344-02	91	132	2.981+02	2.047+06	1.636-05	8.031-05
89	120	7.473+02	1.502+04	1.761-06	2.166-05	91	133	2.977+02	9.622+06	1.278-04	6.263-04
89	121	7.450+02	4.689+06	5.462-04	6.698-03	91	134	2.968+02	5.339+06	9.872-05	4.823-04
89	123	7.427+02	1.143+05	9.450-06	1.155-04	91	135	2.849+02	1.097+07	1.334-04	6.256-04
89	132	2.958+02	1.016+07	7.996-05	3.893-04	91	140	1.040+02	1.254+06	1.221-06	2.089-06
89	133	2.953+02	6.522+07	8.527-04	4.145-03	91	146	9.252+01	3.285+10	2.530-02	3.852-02
89	134	2.945+02	7.905+07	1.439-03	6.974-03	91	147	9.250+01	1.982+09	2.542-03	3.871-03
89	135	2.827+02	4.637+06	5.556-05	2.586-04	91	148	9.246+01	1.765+09	3.167-03	4.819-03
89	140	1.037+02	8.383+07	8.111-05	1.385-04	91	149	9.187+01	2.350+10	2.973-02	4.496-02
89	146	9.229+01	9.466+09	7.252-03	1.102-02	91	154	8.969+01	1.317+05	2.224-07	3.283-07
89	147	9.227+01	2.378+10	3.035-02	4.610-02	92	95	3.802+03	1.064+06	1.647-03	1.443-01
89	148	9.223+01	6.409+09	1.144-02	1.737-02	92	97	3.759+03	3.511+06	9.562-03	8.283-01
89	149	9.164+01	7.276+09	9.162-03	1.382-02	92	98	3.571+03	1.281+07	2.450-02	2.016-00
89	154	8.947+01	1.603+03	2.693-09	3.966-09	92	99	3.486+03	8.902+04	1.158-04	9.302-03
90	95	3.313+03	7.902+05	9.290-04	7.094-02	92	100	3.476+03	2.722+03	4.930-06	3.949-04
90	97	3.281+03	6.999+07	1.452-01	1.098+01	92	101	3.434+03	5.738+07	1.304-01	1.032+01
90	98	3.137+03	3.403+06	5.021-03	3.629-01	92	112	2.775+03	3.444+04	2.840-05	1.816-03
90	99	3.071+03	1.005+06	1.015-03	7.184-02	92	120	7.713+02	3.920+04	3.496-06	6.213-05
90	100	3.063+03	1.548+07	2.177-02	1.537-00	92	121	7.688+02	1.048+06	9.282-05	1.644-03
90	101	3.030+03	3.144+06	5.565-03	3.887-01	92	122	7.682+02	4.052+04	4.609-06	8.160-05
90	112	2.505+03	4.940+04	3.321-05	1.917-03	92	123	7.663+02	1.402+04	8.814-07	1.556-05
90	120	7.489+02	1.536+02	1.291-08	2.229-07	92	133	2.990+02	2.582+06	2.471-05	1.703-04
90	121	7.465+02	6.926+05	5.786-05	9.955-04	92	134	2.981+02	2.530+07	3.371-04	2.316-03
90	122	7.460+02	2.210+06	2.370-04	4.075-03	92	135	2.861+02	6.434+06	5.638-05	3.717-04

Table 2. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric dipole (E1) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
92	147	9.262+01	7.714+09	7.087-03	1.513-02	95	129	5.770+02	1.194+07	3.576-04	3.396-03
92	148	9.258+01	2.435+10	3.128-02	6.675-02	95	130	5.530+02	4.057+06	1.860-04	1.693-03
92	149	9.200+01	2.437+10	2.208-02	4.682-02	95	131	5.383+02	1.075+07	2.802-04	2.483-03
92	154	8.981+01	1.777+05	2.148-07	4.446-07	95	136	2.706+02	2.469+06	2.710-05	1.207-04
92	155	8.981+01	8.054+05	1.252-06	2.591-06	95	137	2.704+02	1.389+06	2.132-05	9.491-05
92	157	8.979+01	7.394+04	1.149-07	2.378-07	95	139	2.693+02	5.945+06	9.049-05	4.011-04
93	94	7.574+03	2.816+04	2.421-04	1.811-02	95	143	1.012+02	2.560+04	2.360-08	3.934-08
93	95	7.073+03	1.026+06	1.283-02	8.961-01	95	144	1.009+02	6.676+07	1.018-04	1.690-04
93	99	6.052+03	8.354+06	7.646-02	4.570-00	95	145	1.006+02	1.334+08	1.215-04	2.012-04
93	110	5.485+03	1.680+04	7.580-05	4.107-03	95	150	9.226+01	1.248+10	1.593-02	2.419-02
93	111	4.590+03	1.427+03	4.506-06	2.042-04	95	151	9.225+01	1.114+10	1.990-02	3.022-02
93	112	4.189+03	2.242+05	9.833-04	4.068-02	95	153	9.216+01	7.030+09	1.253-02	1.901-02
93	113	2.955+03	1.250+05	5.455-05	1.592-03	96	104	2.835+04	1.429+03	1.722-04	1.768-01
93	114	1.235+03	2.093+05	4.783-05	5.833-04	96	105	2.695+04	8.122+04	1.045-02	1.020+01
93	119	1.023+03	1.099+07	5.745-04	5.803-03	96	107	2.349+04	4.604+02	3.117-05	2.651-02
93	123	8.451+02	5.285+07	9.431-03	7.871-02	96	108	2.104+04	2.439+02	1.324-05	1.009-02
93	132	3.108+02	2.032+06	2.943-05	9.032-05	96	109	2.028+04	1.514+04	9.340-04	6.861-01
93	133	3.103+02	1.533+07	3.687-04	1.130-03	96	125	9.410+02	4.262+01	4.629-09	1.577-07
93	135	2.964+02	3.591+07	7.881-04	2.307-03	96	126	9.388+02	1.705+02	1.843-08	6.267-07
93	140	1.055+02	5.262+07	8.779-05	9.148-05	96	127	9.371+02	7.910+03	1.041-06	3.534-05
93	141	1.045+02	6.376+08	3.481-04	3.593-04	96	138	2.703+02	3.968+03	3.556-08	3.480-07
93	146	9.370+01	7.691+09	1.012-02	9.369-03	96	152	9.226+01	6.234+10	6.509-02	2.174-01
93	147	9.368+01	5.536+09	1.214-02	1.123-02	97	103	3.615+04	3.820-01	5.822-08	6.237-05
93	149	9.304+01	1.698+10	3.673-02	3.375-02	97	104	2.846+04	6.719+04	9.973-03	8.410-00
94	102	2.641+04	6.470+04	1.128-02	2.942-00	97	106	2.440+04	5.331+02	3.700-05	2.675-02
94	115	1.380+03	3.056+07	1.453-02	1.980-01	97	107	2.357+04	3.121+02	2.599-05	1.815-02
94	116	1.363+03	1.363+06	6.328-04	8.520-03	97	108	2.110+04	1.477+04	9.862-04	6.167-01
94	118	1.210+03	1.629+07	3.574-03	4.271-02	97	109	2.034+04	7.962+01	6.038-06	3.639-03
94	128	5.780+02	2.508+07	4.187-04	2.390-03	97	117	1.360+03	2.460+05	5.309-05	2.140-03
94	129	5.739+02	6.198+06	3.060-04	1.735-03	97	124	9.426+02	3.719+03	3.852-07	1.076-05
94	130	5.501+02	1.239+05	9.371-06	5.092-05	97	125	9.412+02	2.564+03	3.405-07	9.494-06
94	131	5.356+02	1.333+06	5.731-05	3.032-04	97	126	9.390+02	4.413+03	5.833-07	1.623-05
94	136	2.699+02	2.330+06	4.241-05	1.130-04	97	127	9.372+02	2.828+04	4.552-06	1.264-04
94	142	1.012+02	9.336+08	4.780-04	4.778-04	97	137	2.706+02	3.078+04	2.629-07	2.108-06
94	143	1.012+02	7.269+08	1.115-03	1.114-03	97	138	2.703+02	5.871+04	6.431-07	5.151-06
94	144	1.008+02	1.142+07	2.897-05	2.883-05	97	139	2.695+02	1.089+06	9.225-06	7.367-05
94	145	1.005+02	2.586+07	3.917-05	3.889-05	97	151	9.228+01	4.296+10	4.265-02	1.166-01
94	150	9.218+01	2.139+10	4.541-02	4.134-02	97	152	9.226+01	5.402+08	6.894-04	1.885-03
95	102	3.507+04	6.031+03	1.112-03	6.421-01	97	153	9.219+01	2.230+10	2.210-02	6.037-02
95	103	3.263+04	3.251+04	7.264-03	3.901-00	98	102	8.677+04	2.576+01	2.077-05	4.154-02
95	106	2.274+04	1.183+04	1.284-03	4.805-01	98	103	7.320+04	5.440+02	4.371-04	7.374-01
95	115	1.398+03	5.846+05	1.712-04	3.938-03	98	106	3.705+04	1.565+03	3.221-04	2.751-01
95	116	1.381+03	1.764+06	5.042-04	1.146-02	98	107	3.518+04	3.084+04	7.358-03	5.965-00
95	117	1.355+03	5.531+06	2.131-03	4.752-02	98	108	2.996+04	4.197+01	7.260-06	5.012-03
95	118	1.224+03	3.696+06	4.979-04	1.003-02	98	115	1.432+03	4.263+04	9.356-06	3.086-04
95	124	9.400+02	1.608+05	2.982-05	4.614-04	98	116	1.414+03	2.647+05	5.668-05	1.847-03

Table 2. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric dipole (E1) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
98	117	1.387+03	1.524+05	4.394-05	1.404-03	100	136	2.724+02	2.240+05	1.780-06	1.117-05
98	124	9.552+02	3.567+03	4.879-07	1.074-05	100	137	2.722+02	3.240+06	3.600-05	2.258-04
98	125	9.537+02	1.819+05	3.189-05	7.010-04	100	138	2.719+02	3.384+05	4.822-06	3.021-05
98	126	9.515+02	6.677+03	1.165-06	2.554-05	100	139	2.711+02	4.712+06	5.191-05	3.243-04
98	130	5.582+02	1.430+07	4.771-04	6.138-03	100	144	1.011+02	9.390+04	1.028-07	2.395-07
98	136	2.718+02	5.607+05	4.436-06	2.779-05	100	150	9.247+01	2.707+10	2.478-02	5.281-02
98	137	2.717+02	4.034+06	4.463-05	2.794-04	100	151	9.246+01	7.427+09	9.518-03	2.028-02
98	138	2.713+02	1.520+06	2.157-05	1.349-04	100	152	9.244+01	1.270+09	2.092-03	4.456-03
98	139	2.705+02	3.357+06	3.684-05	2.296-04	100	153	9.237+01	1.894+10	2.423-02	5.159-02
98	144	1.010+02	7.007+06	7.659-06	1.783-05	101	103	4.044+05	1.560-01	2.975-06	3.564-02
98	150	9.240+01	4.384+09	4.008-03	8.535-03	101	104	1.005+05	6.233-00	1.154-05	3.438-02
98	151	9.239+01	1.873+10	2.397-02	5.105-02	101	106	6.329+04	1.948+01	9.100-06	1.706-02
98	152	9.238+01	5.991+09	9.854-03	2.098-02	101	107	5.801+04	1.118+03	5.638-04	9.691-01
98	153	9.231+01	1.253+10	1.600-02	3.404-02	101	108	4.505+04	1.741+02	5.299-05	7.073-02
99	102	2.146+05	7.752-00	5.350-05	1.889-01	101	109	4.172+04	2.001+04	6.383-03	7.891-00
99	103	1.471+05	7.130+01	3.239-04	7.846-01	101	117	1.409+03	9.150+03	2.117-06	8.836-05
99	106	4.969+04	9.527+03	4.937-03	4.038-00	101	124	9.655+02	1.026+04	1.115-06	3.191-05
99	115	1.446+03	7.440+04	2.331-05	5.548-04	101	125	9.640+02	1.126+05	1.569-05	4.482-04
99	116	1.428+03	1.680+04	5.136-06	1.207-04	101	126	9.617+02	9.066+02	1.257-07	3.582-06
99	117	1.400+03	1.284+05	5.284-05	1.218-03	101	127	9.599+02	9.738+04	1.644-05	4.676-04
99	118	1.260+03	1.375+07	1.965-03	4.078-02	101	137	2.725+02	7.098+05	6.146-06	4.962-05
99	124	9.615+02	8.123+01	1.576-08	2.495-07	101	138	2.722+02	6.650+06	7.385-05	5.955-04
99	129	5.850+02	3.203+06	9.863-05	9.498-04	101	139	2.714+02	2.008+05	1.724-06	1.386-05
99	130	5.604+02	5.564+04	2.620-06	2.416-05	101	151	9.249+01	1.223+10	1.220-02	3.344-02
99	131	5.453+02	9.639+06	2.578-04	2.314-03	101	152	9.247+01	2.575+10	3.301-02	9.044-02
99	136	2.723+02	4.418+06	4.913-05	2.202-04	101	153	9.240+01	1.581+10	1.574-02	4.309-02
99	137	2.722+02	1.936+05	3.010-06	1.349-05	102	110	8.056+04	1.044+02	6.094-05	8.082-02
99	139	2.710+02	1.832+07	2.825-04	1.260-03	102	111	2.084+04	4.257+02	1.662-05	5.701-03
99	143	1.015+02	5.305+04	4.915-08	8.212-08	102	112	1.453+04	3.584+02	1.135-05	2.714-03
99	144	1.011+02	6.697+05	1.026-06	1.708-06	102	114	1.562+03	6.193-00	1.360-09	3.497-08
99	145	1.009+02	3.699+05	3.384-07	5.618-07	102	120	9.950+02	2.230+04	4.634-06	7.590-05
99	150	9.246+01	2.111+10	2.706-02	4.118-02	102	121	9.909+02	6.612+03	1.363-06	2.222-05
99	151	9.245+01	1.992+07	3.573-05	5.437-05	102	123	9.868+02	8.397+04	1.226-05	1.991-04
99	153	9.236+01	1.536+10	2.751-02	4.182-02	102	132	3.281+02	5.016+05	4.858-06	2.624-05
100	102	2.602+05	3.609-01	2.617-06	1.569-02	102	133	3.275+02	4.878+04	7.846-07	4.230-06
100	103	1.672+05	4.209-01	1.765-06	6.803-03	102	134	3.265+02	7.252+02	1.623-08	8.721-08
100	106	5.180+04	1.285+03	5.168-04	6.168-01	102	135	3.121+02	3.826+02	5.586-09	2.870-08
100	107	4.821+04	9.888+01	4.429-05	4.920-02	102	140	1.074+02	1.580+01	1.640-11	2.901-11
100	108	3.891+04	2.415+04	7.047-03	6.318-00	102	146	9.522+01	1.563+07	1.275-05	1.999-05
100	115	1.447+03	3.945+04	8.851-06	2.952-04	102	147	9.520+01	3.080+06	4.185-06	6.558-06
100	116	1.430+03	6.448+02	1.411-07	4.649-06	102	148	9.515+01	1.123+05	2.134-07	3.342-07
100	117	1.402+03	1.530+04	4.508-06	1.456-04	102	149	9.453+01	1.868+05	2.502-07	3.894-07
100	124	9.623+02	1.365+05	1.894-05	4.201-04	102	154	9.222+01	2.034+10	3.632-02	5.513-02
100	125	9.608+02	5.570+02	9.911-08	2.194-06	103	112	1.500+04	1.380+03	3.323-05	1.149-02
100	126	9.585+02	1.408+05	2.494-05	5.508-04	103	120	9.971+02	5.354+03	7.980-07	1.834-05
100	130	5.606+02	1.931+05	6.501-06	8.399-05	103	121	9.930+02	9.521+04	1.407-05	3.220-04

Table 2. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric dipole (E1) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
103	122	9.920+02	7.166+04	1.359-05	3.108-04	108	156	9.239+01	8.090+08	1.265-03	3.464-03
103	123	9.889+02	5.057+04	5.295-06	1.207-04	108	157	9.239+01	4.285+09	5.484-03	1.501-02
103	133	3.278+02	3.816+05	4.390-06	3.316-05	109	122	1.014+03	2.359+04	2.973-06	1.091-04
103	134	3.267+02	1.349+04	2.159-07	1.626-06	109	155	9.242+01	1.879+09	1.969-03	6.589-03
103	135	3.123+02	1.886+06	1.970-05	1.418-04	109	156	9.241+01	2.681+10	3.432-02	1.148-01
103	147	9.521+01	1.120+07	1.088-05	2.387-05	109	157	9.240+01	2.378+10	2.490-02	8.333-02
103	148	9.517+01	5.644+06	7.663-06	1.681-05	110	115	1.482+03	7.482+08	4.108-01	6.014-00
103	149	9.455+01	3.399+05	3.254-07	7.090-07	110	116	1.464+03	9.218+06	4.934-03	7.131-02
103	154	9.224+01	1.689+09	2.154-03	4.580-03	110	118	1.288+03	4.575+08	1.138-01	1.448-00
103	155	9.224+01	7.526+08	1.234-03	2.624-03	110	128	5.953+02	5.402+07	9.566-04	5.624-03
103	157	9.222+01	2.020+10	3.311-02	7.036-02	110	129	5.909+02	3.236+05	1.694-05	9.889-05
104	122	9.994+02	9.653+03	1.183-06	4.281-05	110	130	5.658+02	1.072+07	8.574-04	4.791-03
104	155	9.230+01	6.042+10	6.314-02	2.111-01	110	131	5.504+02	8.135+05	3.694-05	2.008-04
104	156	9.229+01	6.615+08	8.446-04	2.823-03	110	136	2.736+02	1.572+07	2.940-04	7.946-04
104	157	9.229+01	1.337+09	1.397-03	4.669-03	110	142	1.017+02	3.351+10	1.733-02	1.741-02
105	156	9.230+01	6.048+10	6.537-02	2.582-01	110	143	1.017+02	2.498+10	3.872-02	3.887-02
106	112	1.874+04	2.461+02	9.257-06	3.998-03	110	144	1.013+02	4.966+08	1.273-03	1.273-03
106	120	1.011+03	7.949+04	1.217-05	2.834-04	110	145	1.010+02	1.781+09	2.725-03	2.719-03
106	121	1.006+03	9.490+02	1.441-07	3.341-06	110	150	9.261+01	9.260+08	1.984-03	1.815-03
106	122	1.005+03	3.140+03	6.117-07	1.417-05	111	115	1.565+03	3.891+07	2.381-02	3.679-01
106	123	1.002+03	2.532+03	2.723-07	6.288-06	111	116	1.544+03	7.489+08	4.461-01	6.802-00
106	133	3.292+02	3.020+04	3.505-07	2.659-06	111	118	1.350+03	1.319+08	3.605-02	4.807-01
106	134	3.282+02	7.316+03	1.181-07	8.932-07	111	128	6.082+02	8.759+06	1.619-04	9.724-04
106	135	3.136+02	1.415+06	1.490-05	1.077-04	111	129	6.036+02	3.358+07	1.834-03	1.094-02
106	147	9.534+01	2.326+05	2.264-07	4.974-07	111	130	5.774+02	4.227+07	3.522-03	2.008-02
106	148	9.529+01	2.241+05	3.051-07	6.699-07	111	131	5.614+02	9.894+06	4.675-04	2.592-03
106	149	9.467+01	1.068+05	1.025-07	2.237-07	111	136	2.763+02	3.153+06	6.014-05	1.641-04
106	154	9.235+01	3.032+10	3.877-02	8.251-02	111	142	1.021+02	1.961+09	1.021-03	1.030-03
106	155	9.235+01	4.189+09	6.887-03	1.466-02	111	143	1.020+02	1.764+08	2.754-04	2.775-04
106	157	9.233+01	2.417+09	3.972-03	8.452-03	111	144	1.017+02	2.406+10	6.212-02	6.236-02
107	120	1.012+03	2.730+03	3.261-07	9.777-06	111	145	1.014+02	4.276+09	6.591-03	6.600-03
107	121	1.008+03	3.232+04	3.827-06	1.143-04	111	150	9.291+01	8.766+07	1.891-04	1.735-04
107	122	1.007+03	6.480+04	9.847-06	2.937-04	112	115	1.618+03	1.106+08	4.338-02	1.155-00
107	134	3.283+02	1.839+05	2.312-06	2.249-05	112	116	1.595+03	7.582+07	2.893-02	7.596-01
107	148	9.530+01	3.259+06	3.452-06	9.746-06	112	117	1.561+03	8.233+08	4.209-01	1.081+01
107	154	9.236+01	2.287+09	2.275-03	6.225-03	112	118	1.389+03	2.792+07	4.847-03	1.108-01
107	155	9.237+01	2.999+09	3.836-03	1.050-02	112	124	1.035+03	9.335+04	2.097-05	3.572-04
107	156	9.235+01	4.998+09	7.810-03	2.137-02	112	129	6.113+02	6.555+06	2.204-04	2.217-03
107	157	9.235+01	2.796+10	3.575-02	9.782-02	112	130	5.844+02	1.178+06	6.033-05	5.804-04
108	120	1.017+03	4.316+04	5.207-06	1.569-04	112	131	5.680+02	6.797+06	1.973-04	1.845-03
108	121	1.013+03	3.316+01	3.967-09	1.190-07	112	136	2.779+02	1.980+06	2.292-05	1.048-04
108	122	1.012+03	7.371+02	1.131-07	3.392-06	112	137	2.777+02	8.140+06	1.318-04	6.024-04
108	134	3.289+02	1.432+03	1.805-08	1.759-07	112	139	2.765+02	3.983+06	6.393-05	2.910-04
108	148	9.535+01	2.608+04	2.764-08	7.809-08	112	143	1.022+02	1.878+09	1.767-03	2.974-03
108	154	9.241+01	2.482+10	2.471-02	6.765-02	112	144	1.019+02	1.807+10	2.810-02	4.712-02
108	155	9.241+01	2.314+10	2.963-02	8.112-02	112	145	1.016+02	3.010+10	2.795-02	4.676-02

Table 2. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric dipole (E1) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
112	150	9.309+01	1.106+08	1.436-04	2.201-04	116	154	9.854+01	5.385+03	1.097-08	1.780-08
112	151	9.308+01	1.062+08	1.932-04	2.960-04	117	120	3.385+03	4.270+06	7.334-03	5.721-01
112	153	9.300+01	1.224+08	2.222-04	3.402-04	117	121	3.337+03	3.853+06	6.433-03	4.947-01
113	118	1.613+03	3.888+08	4.547-01	2.414-00	117	122	3.327+03	7.524+07	1.605-01	1.230+01
113	129	6.510+02	1.191+07	2.270-03	4.866-03	117	123	3.291+03	2.720+05	3.156-04	2.393-02
113	131	6.022+02	9.768+07	1.593-02	3.158-02	117	133	4.267+02	1.304+07	2.542-04	2.500-03
113	143	1.033+02	8.374+09	4.020-02	1.367-02	117	134	4.250+02	2.560+06	6.930-05	6.786-04
113	145	1.027+02	1.023+09	4.848-03	1.638-03	117	135	4.009+02	6.171+06	1.062-04	9.809-04
114	115	2.128+04	1.217+02	1.377-05	2.895-03	117	147	1.021+02	9.911+09	1.106-02	2.603-02
114	116	1.798+04	7.085+03	5.722-04	1.016-01	117	148	1.020+02	1.569+10	2.449-02	5.760-02
114	118	6.728+03	3.853+04	2.615-04	1.737-02	117	149	1.013+02	2.041+10	2.244-02	5.241-02
114	128	9.503+02	1.190+09	5.371-02	5.041-01	117	154	9.868+01	2.434+05	3.554-07	8.081-07
114	129	9.393+02	1.071+09	1.417-01	1.314-00	117	155	9.868+01	1.256+06	2.358-06	5.363-06
114	130	8.773+02	1.514+09	2.912-01	2.523-00	117	157	9.866+01	6.954+06	1.305-05	2.966-05
114	131	8.409+02	2.259+08	2.395-02	1.989-01	118	119	5.224+04	4.610+02	6.287-05	3.244-02
114	136	3.303+02	5.663+02	1.544-08	5.037-08	118	123	4.450+03	2.554+07	1.264-01	5.553-00
114	142	1.087+02	4.740+10	2.797-02	3.002-02	118	132	4.426+02	1.484+05	4.360-06	1.906-05
114	143	1.086+02	3.805+10	6.727-02	7.215-02	118	133	4.416+02	3.699+07	1.803-03	7.862-03
114	144	1.082+02	3.798+10	1.110-01	1.186-01	118	135	4.140+02	3.308+07	1.417-03	5.792-03
114	145	1.079+02	6.521+09	1.137-02	1.212-02	118	140	1.174+02	5.144+07	1.062-04	1.231-04
114	150	9.832+01	4.772+03	1.153-08	1.119-08	118	141	1.162+02	6.928+06	4.672-06	5.360-06
115	120	3.145+03	8.323+07	1.728-01	8.943-00	118	146	1.029+02	4.625+09	7.349-03	7.473-03
115	121	3.104+03	1.145+05	2.315-04	1.183-02	118	147	1.029+02	9.598+09	2.540-02	2.582-02
115	123	3.064+03	9.063+06	1.276-02	6.434-01	118	149	1.022+02	9.312+09	2.428-02	2.449-02
115	132	4.236+02	2.186+07	3.528-04	2.460-03	119	129	1.115+03	9.382+07	5.247-02	1.926-01
115	133	4.227+02	3.373+05	9.034-06	6.285-05	119	131	9.790+02	9.220+08	3.974-01	1.281-00
115	134	4.209+02	2.790+06	1.038-04	7.189-04	119	143	1.106+02	8.874+09	4.883-02	1.778-02
115	135	3.973+02	3.443+06	8.146-05	5.327-04	119	145	1.099+02	4.993+10	2.710-01	9.801-02
115	140	1.160+02	6.969+06	8.433-06	1.610-05	120	124	3.294+04	1.883+03	3.063-04	2.325-01
115	146	1.019+02	3.183+10	2.972-02	4.984-02	120	125	3.128+04	1.334+03	2.517-04	1.814-01
115	147	1.019+02	1.211+10	1.884-02	3.159-02	120	126	2.900+04	6.116+04	9.916-03	6.628-00
115	148	1.018+02	5.922+05	1.288-06	2.159-06	120	130	1.291+03	5.045+04	8.998-06	2.676-04
115	149	1.011+02	6.430+09	9.853-03	1.640-02	120	136	3.756+02	7.712+04	1.165-06	1.009-05
115	154	9.846+01	1.582+05	3.218-07	5.215-07	120	137	3.753+02	9.517+05	2.010-05	1.738-04
116	120	3.233+03	7.007+05	1.537-03	8.178-02	120	138	3.747+02	2.557-01	6.919-12	5.974-11
116	121	3.189+03	8.076+07	1.724-01	9.050-00	120	139	3.731+02	1.316+06	2.747-05	2.362-04
116	123	3.147+03	5.558+06	8.254-03	4.276-01	120	144	1.126+02	6.707+02	9.105-10	2.363-09
116	132	4.251+02	9.186+05	1.493-05	1.045-04	120	150	1.020+02	2.870+10	3.197-02	7.513-02
116	133	4.242+02	4.124+06	1.113-04	7.769-04	120	151	1.020+02	1.196+10	1.865-02	4.382-02
116	134	4.225+02	9.983+07	3.740-03	2.600-02	120	152	1.019+02	6.245+07	1.251-04	2.939-04
116	135	3.986+02	1.987+06	4.733-05	3.106-04	120	153	1.019+02	3.801+09	5.913-03	1.388-02
116	140	1.161+02	1.732+08	2.100-04	4.014-04	121	124	3.824+04	1.044+03	2.289-04	2.017-01
116	146	1.020+02	6.644+05	6.215-07	1.043-06	121	125	3.603+04	3.163+04	7.913-03	6.569-00
116	147	1.019+02	2.901+09	4.520-03	7.585-03	121	126	3.304+04	1.622+03	3.413-04	2.598-01
116	148	1.019+02	1.912+10	4.167-02	6.989-02	121	130	1.298+03	4.365+06	7.871-04	2.354-02
116	149	1.012+02	5.459+09	8.378-03	1.395-02	121	136	3.762+02	1.402+05	2.125-06	1.842-05

Table 2. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric dipole (E1) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
121	137	3.759+02	2.810+05	5.952-06	5.156-05	126	134	4.943+02	3.349+03	9.540-08	1.397-06
121	138	3.753+02	4.222+06	1.146-04	9.911-04	126	148	1.056+02	1.071+05	1.392-07	4.356-07
121	139	3.737+02	1.807+06	3.785-05	3.260-04	126	154	1.020+02	2.692+10	3.266-02	9.870-02
121	144	1.127+02	7.300+04	9.921-08	2.575-07	126	155	1.020+02	1.455+10	2.269-02	6.857-02
121	150	1.020+02	5.261+07	5.865-05	1.379-04	126	156	1.020+02	6.379+08	1.216-03	3.673-03
121	151	1.020+02	2.760+09	4.306-03	1.012-02	126	157	1.020+02	1.956+08	3.049-04	9.214-04
121	152	1.020+02	1.430+10	2.867-02	6.738-02	127	155	1.020+02	9.193+07	1.174-04	4.336-04
121	153	1.019+02	7.112+09	1.107-02	2.600-02	127	156	1.020+02	1.413+10	2.203-02	8.139-02
122	124	3.967+04	4.295+01	7.883-06	9.266-03	127	157	1.020+02	2.734+10	3.489-02	1.289-01
122	125	3.729+04	1.225+03	2.553-04	2.822-01	128	132	7.377+02	1.591+09	3.894-01	9.458-01
122	126	3.410+04	8.927+02	1.556-04	1.572-01	128	140	1.313+02	1.210+10	9.381-02	4.055-02
122	127	3.194+04	4.864+04	9.094-03	8.607-00	128	146	1.135+02	5.148+10	2.984-01	1.115-01
122	137	3.760+02	6.517+04	1.075-06	1.197-05	129	132	7.445+02	1.008+09	8.373-02	6.156-01
122	138	3.754+02	1.736+06	3.669-05	4.081-04	129	133	7.416+02	1.918+09	2.635-01	1.930-00
122	139	3.739+02	6.112+05	9.961-06	1.103-04	129	135	6.669+02	3.926+08	4.363-02	2.873-01
122	151	1.020+02	7.287+09	8.845-03	2.674-02	129	140	1.315+02	3.193+10	8.278-02	1.075-01
122	152	1.020+02	1.487+10	2.319-02	7.009-02	129	141	1.300+02	1.492+10	1.259-02	1.617-02
122	153	1.019+02	2.069+10	2.506-02	7.566-02	129	146	1.137+02	3.410+10	6.606-02	7.416-02
123	124	4.551+04	1.540+04	6.697-03	5.017-00	129	147	1.136+02	6.274+10	2.025-01	2.272-01
123	129	1.447+03	2.635+06	4.961-04	1.181-02	129	149	1.127+02	8.600+09	2.729-02	3.037-02
123	130	1.305+03	3.097+05	7.903-05	1.697-03	130	132	7.887+02	6.526+07	3.651-03	4.740-02
123	131	1.226+03	1.040+06	1.405-04	2.834-03	130	133	7.855+02	5.916+08	5.471-02	7.074-01
123	136	3.768+02	1.640+06	3.491-05	2.165-04	130	134	7.795+02	2.426+09	3.094-01	3.970-00
123	137	3.765+02	4.240+06	1.262-04	7.818-04	130	135	7.021+02	2.619+06	1.935-04	2.237-03
123	139	3.743+02	7.336+06	2.157-04	1.329-03	130	140	1.328+02	6.374+10	1.011-01	2.211-01
123	143	1.132+02	3.213+05	3.702-07	6.898-07	130	146	1.147+02	2.717+09	3.213-03	6.063-03
123	144	1.127+02	1.255+04	2.389-08	4.433-08	130	147	1.146+02	2.397+10	4.720-02	8.906-02
123	145	1.124+02	1.622+06	1.844-06	3.411-06	130	148	1.146+02	9.398+10	2.588-01	4.880-01
123	150	1.021+02	8.846+09	1.382-02	2.321-02	130	149	1.137+02	9.996+07	1.936-04	3.621-04
123	151	1.021+02	1.064+10	2.325-02	3.906-02	130	154	1.103+02	6.092+01	1.557-10	2.827-10
123	153	1.019+02	3.932+09	8.579-03	1.440-02	131	132	8.206+02	1.146+08	1.157-02	9.378-02
124	133	4.956+02	1.329+05	3.497-06	3.994-05	131	133	8.172+02	1.466+08	2.446-02	1.974-01
124	134	4.932+02	1.281+04	4.674-07	5.313-06	131	135	7.273+02	2.708+09	3.579-01	2.571-00
124	135	4.611+02	1.066+06	2.426-05	2.578-04	131	140	1.337+02	5.039+09	1.350-02	1.783-02
124	147	1.056+02	7.506+06	8.964-06	2.182-05	131	141	1.321+02	1.003+11	8.749-02	1.142-01
124	148	1.056+02	1.088+06	1.818-06	4.421-06	131	146	1.153+02	5.276+09	1.051-02	1.197-02
124	149	1.048+02	6.178+05	7.264-07	1.754-06	131	147	1.153+02	6.643+09	2.205-02	2.511-02
124	154	1.020+02	1.029+10	1.604-02	3.768-02	131	149	1.143+02	8.338+10	2.722-01	3.072-01
124	155	1.020+02	1.066+10	2.136-02	5.018-02	132	136	1.614+03	1.576+08	1.026-01	1.636-00
124	157	1.019+02	8.477+04	1.698-07	3.988-07	132	142	1.472+02	3.862+10	4.181-02	6.078-02
125	134	4.936+02	3.808+05	1.082-05	1.583-04	132	143	1.471+02	8.290+09	2.687-02	3.903-02
125	148	1.056+02	1.344+07	1.746-05	5.463-05	132	144	1.462+02	3.684+08	1.968-03	2.843-03
125	154	1.020+02	1.172+09	1.421-03	4.295-03	132	145	1.457+02	1.198+09	3.813-03	5.488-03
125	155	1.020+02	1.169+08	1.823-04	5.507-04	132	150	1.288+02	1.804+11	7.480-01	9.517-01
125	156	1.020+02	1.023+10	1.948-02	5.886-02	133	136	1.628+03	2.837+07	1.127-02	3.018-01
125	157	1.019+02	1.050+10	1.636-02	4.942-02	133	137	1.622+03	1.616+08	8.925-02	2.383-00

Table 2. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric dipole (E1) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
133	139	1.582+03	3.090+06	1.624-03	4.231-02	139	154	1.397+02	1.071+09	3.133-03	1.008-02
133	143	1.472+02	2.637+10	5.136-02	1.244-01	139	155	1.397+02	7.994+10	3.007-01	9.680-01
133	144	1.464+02	5.528+09	1.775-02	4.276-02	139	157	1.396+02	2.808+11	1.056-00	3.397-00
133	145	1.458+02	2.438+09	4.664-03	1.120-02	140	142	1.875+03	4.015+08	7.054-02	1.306-00
133	150	1.289+02	3.316+10	8.260-02	1.752-01	140	143	1.853+03	3.611+08	1.860-01	3.405-00
133	151	1.289+02	1.889+11	6.587-01	1.397-00	140	144	1.732+03	5.108+08	3.830-01	6.552-00
133	153	1.287+02	2.455+09	8.536-03	1.809-02	140	145	1.662+03	7.644+07	3.165-02	5.196-01
134	136	1.654+03	7.734+05	2.265-04	8.633-03	140	150	6.658+02	8.238+01	9.124-09	5.999-08
134	137	1.648+03	1.887+07	7.685-03	2.919-01	141	143	2.217+03	3.165+07	6.997-02	5.107-01
134	138	1.636+03	1.804+08	9.306-02	3.508-00	141	145	1.949+03	3.079+08	5.259-01	3.374-00
134	139	1.607+03	7.603+05	2.944-04	1.091-02	142	146	1.516+03	5.021+08	5.186-01	2.588-00
134	144	1.466+02	3.143+10	7.228-02	2.441-01	143	146	1.530+03	3.177+08	1.115-01	1.685-00
134	150	1.291+02	9.442+08	1.684-03	5.009-03	143	147	1.524+03	6.082+08	3.528-01	5.309-00
134	151	1.291+02	2.308+10	5.762-02	1.714-01	143	149	1.369+03	1.203+08	5.635-02	7.622-01
134	152	1.290+02	2.155+11	6.914-01	2.056-00	144	146	1.624+03	2.048+07	4.856-03	1.298-01
134	153	1.289+02	6.741+08	1.678-03	4.985-03	144	147	1.617+03	1.859+08	7.284-02	1.939-00
135	136	2.159+03	3.706+04	2.589-05	9.202-04	144	148	1.604+03	7.652+08	4.130-01	1.090+01
135	137	2.149+03	1.506+06	1.460-03	5.166-02	144	149	1.444+03	9.196+05	2.875-04	6.834-03
135	139	2.080+03	8.530+07	7.747-02	2.653-00	144	154	1.044+03	6.581-04	1.507-13	2.591-12
135	143	1.505+02	4.469+09	9.105-03	2.256-02	145	146	1.691+03	3.590+07	1.538-02	2.569-01
135	144	1.497+02	1.620+07	5.438-05	1.340-04	145	147	1.683+03	4.461+07	3.158-02	5.249-01
135	145	1.491+02	3.700+10	7.401-02	1.816-01	145	149	1.497+03	8.401+08	4.703-01	6.952-00
135	150	1.315+02	1.064+08	2.757-04	5.965-04	146	150	3.238+03	6.868+07	1.799-01	5.753-00
135	151	1.314+02	3.207+09	1.163-02	2.516-02	147	150	3.266+03	1.235+07	1.974-02	1.061-00
135	153	1.313+02	2.136+11	7.725-01	1.669-00	147	151	3.258+03	7.051+07	1.571-01	8.423-00
136	140	1.773+02	3.715+02	1.050-09	3.064-09	147	153	3.151+03	9.697+05	2.021-03	1.048-01
136	146	1.463+02	7.815+09	1.505-02	3.624-02	148	150	3.321+03	3.365+05	3.973-04	3.041-02
136	147	1.463+02	8.615+08	2.763-03	6.651-03	148	151	3.312+03	8.231+06	1.354-02	1.033-00
136	148	1.461+02	1.750+07	7.846-05	1.888-04	148	152	3.291+03	7.789+07	1.626-01	1.233+01
136	149	1.447+02	2.670+06	8.382-06	1.996-05	148	153	3.202+03	2.799+05	4.302-04	3.174-02
136	154	1.394+02	3.326+11	1.356-00	3.110-00	149	150	4.306+03	1.873+04	5.208-05	3.691-03
137	147	1.463+02	6.811+09	1.561-02	5.264-02	149	151	4.292+03	4.743+05	1.833-03	1.295-01
137	148	1.462+02	5.906+08	1.892-03	6.376-03	149	153	4.108+03	3.899+07	1.381-01	9.340-00
137	149	1.447+02	1.280+08	2.872-04	9.578-04	150	154	3.060+04	5.079+04	9.983-03	5.029-00
137	154	1.394+02	2.787+10	8.117-02	2.607-01	151	154	3.135+04	4.011+03	5.910-04	4.269-01
137	155	1.394+02	2.689+11	1.007-00	3.235-00	151	155	3.152+04	3.679+04	7.044-03	5.116-00
137	157	1.394+02	7.188+10	2.691-01	8.641-01	151	157	2.943+04	1.323+04	2.209-03	1.498-00
138	148	1.463+02	7.106+09	1.773-02	7.686-02	152	154	3.339+04	5.419+01	7.044-06	6.969-03
138	154	1.395+02	4.558+08	1.034-03	4.273-03	152	155	3.358+04	1.595+03	2.696-04	2.682-01
138	155	1.395+02	1.378+10	4.020-02	1.661-01	152	156	3.162+04	5.016+04	9.188-03	8.607-00
138	156	1.394+02	3.626+11	1.292-00	5.338-00	152	157	3.122+04	1.270+03	1.856-04	1.717-01
138	157	1.394+02	8.695+09	2.535-02	1.047-01	153	154	4.652+04	3.754+01	1.218-05	1.305-02
139	147	1.466+02	1.133+08	2.609-04	8.818-04	153	155	4.689+04	3.605+03	1.528-03	1.651-00
139	148	1.465+02	2.179+07	7.014-05	2.368-04	153	157	4.242+04	1.581+04	5.485-03	5.362-00
139	149	1.451+02	6.969+09	1.570-02	5.249-02						

Table 3. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic dipole (M1) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
1	6	1.645+01	1.799+05	2.190-08	8.908-05	2	70	4.199+01	3.245-03	1.201-15	6.235-11
1	9	1.631+01	7.125+03	8.526-10	3.439-06	2	71	4.168+01	1.020+01	1.594-12	8.212-08
1	12	1.611+01	4.172+03	4.872-10	1.941-06	2	76	3.447+01	9.147+01	1.630-11	6.946-07
1	13	1.605+01	2.046+05	2.370-08	9.404-05	2	77	3.444+01	1.782+02	1.901-11	8.097-07
1	28	1.442+01	1.935+04	1.809-09	6.448-06	2	85	3.329+01	1.091-00	1.087-13	4.475-09
1	34	1.322+01	2.095+03	1.647-10	5.386-07	2	87	3.312+01	1.842-00	1.818-13	7.445-09
1	40	1.255+01	1.216+05	8.617-09	2.675-05	2	89	3.309+01	1.608-02	2.640-15	1.080-10
1	45	1.253+01	3.083-00	2.177-13	6.743-10	2	90	3.309+01	2.849-00	6.549-13	2.679-08
1	48	1.239+01	4.599+03	3.174-10	9.721-07	2	91	3.306+01	1.552-00	2.544-13	1.040-08
1	49	1.237+01	7.676+04	5.285-09	1.617-05	2	92	3.305+01	6.649-03	1.524-15	6.228-11
1	60	1.224+01	2.334+02	1.572-11	4.757-08	2	93	3.292+01	5.314-00	5.179-13	2.107-08
1	78	1.138+01	5.954+04	3.469-09	9.763-06	2	102	3.273+01	5.806-03	9.326-16	3.774-11
1	81	1.137+01	2.164+02	1.258-11	3.538-08	2	103	3.273+01	2.633-04	5.921-17	2.396-12
1	94	1.125+01	3.700+02	2.108-11	5.865-08	2	106	3.272+01	7.324-06	1.645-18	6.656-14
1	110	1.125+01	5.393+03	3.068-10	8.534-07	2	115	3.201+01	2.114-01	3.248-14	1.285-09
1	111	1.124+01	3.198+04	1.818-09	5.054-06	2	116	3.200+01	1.026-01	1.576-14	6.237-10
1	114	1.117+01	1.673+04	9.386-10	2.592-06	2	117	3.199+01	4.065-03	8.731-16	3.453-11
1	132	1.088+01	1.115+03	5.930-11	1.595-07	2	118	3.191+01	5.048-00	4.623-13	1.824-08
1	140	1.018+01	5.085+03	2.371-10	5.970-07	2	124	3.166+01	6.270-08	1.319-20	5.163-16
1	146	1.006+01	3.381+02	1.539-11	3.828-08	2	129	3.100+01	3.562+01	3.080-12	1.181-07
2	3	6.342+03	4.061+01	1.469-07	1.152-00	2	130	3.093+01	1.693-02	2.428-15	9.286-11
2	5	8.942+02	1.694+04	1.218-06	1.347-00	2	131	3.088+01	3.763-01	3.229-14	1.233-09
2	17	1.605+02	5.884+01	1.364-10	2.707-05	2	136	2.923+01	1.147-01	1.469-14	5.307-10
2	18	1.568+02	1.469-00	5.413-12	1.049-06	2	137	2.922+01	8.445-03	1.514-15	5.469-11
2	20	1.549+02	4.696-01	2.366-12	4.533-07	2	139	2.921+01	3.239-03	5.801-16	2.095-11
2	21	1.516+02	7.758-01	2.673-12	5.009-07	2	143	2.475+01	2.718+01	1.498-12	4.584-08
2	22	1.496+02	2.323-00	1.091-11	2.018-06	2	144	2.473+01	3.185-00	2.920-13	8.929-09
2	23	1.414+02	7.189+01	1.294-10	2.263-05	2	145	2.472+01	8.986-01	4.938-14	1.509-09
2	24	1.339+02	9.961-02	2.676-13	4.429-08	2	150	2.418+01	1.141-01	9.995-15	2.988-10
2	25	1.327+02	1.043+01	2.755-11	4.521-06	2	151	2.418+01	2.998-03	3.678-16	1.099-11
2	26	1.319+02	2.124-00	7.759-12	1.266-06	2	153	2.417+01	1.656-02	2.031-15	6.070-11
2	27	1.221+02	7.760+01	1.040-10	1.569-05	3	4	1.162+03	1.574+04	1.062-06	9.153-01
2	31	7.292+01	2.404+02	1.150-10	1.036-05	3	5	1.041+03	2.962+03	4.812-07	3.716-01
2	32	7.194+01	1.304-01	1.012-13	9.003-09	3	16	1.669+02	1.113+02	1.549-10	1.917-05
2	33	7.114+01	8.447+01	3.845-11	3.382-06	3	17	1.647+02	2.773+01	1.128-10	1.378-05
2	38	4.929+01	7.742+01	2.820-11	1.718-06	3	18	1.607+02	2.385-00	1.539-11	1.836-06
2	39	4.916+01	1.625+02	3.533-11	2.148-06	3	21	1.553+02	5.299-00	3.194-11	3.679-06
2	42	4.687+01	5.377-02	1.062-14	6.155-10	3	23	1.447+02	1.042-00	3.269-12	3.508-07
2	52	4.408+01	1.201-00	2.098-13	1.143-08	3	24	1.368+02	3.213-00	1.501-11	1.523-06
2	54	4.396+01	1.053-01	3.051-14	1.659-09	3	25	1.356+02	8.773-00	4.028-11	4.050-06
2	55	4.394+01	1.768-00	7.167-13	3.894-08	3	27	1.244+02	6.880+01	1.597-10	1.475-05
2	57	4.385+01	8.449-01	2.435-13	1.320-08	3	30	7.397+01	3.282+02	8.973-11	4.924-06
2	58	4.379+01	4.531-03	1.823-15	9.872-11	3	31	7.377+01	1.008+01	8.222-12	4.499-07
2	59	4.338+01	7.600-00	1.286-12	6.900-08	3	32	7.277+01	1.471+01	1.946-11	1.051-06
2	68	4.207+01	3.100-01	8.228-14	4.280-09	3	33	7.195+01	9.392-00	7.289-12	3.890-07
2	69	4.204+01	1.735-01	4.598-14	2.390-09	3	38	4.967+01	9.996+01	6.163-11	2.271-06

Table 3. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic dipole (M1) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
3	39	4.954+01	1.039+01	3.822-12	1.405-07	4	85	3.446+01	5.696+01	3.041-11	2.591-07
3	41	4.727+01	3.186+01	3.558-12	1.248-07	4	87	3.428+01	2.250-01	1.189-13	1.008-09
3	42	4.721+01	8.058-00	2.693-12	9.431-08	4	93	3.406+01	2.340-00	1.221-12	1.028-08
3	51	4.446+01	1.090-02	1.076-15	3.549-11	4	118	3.298+01	4.657-03	2.278-15	1.858-11
3	52	4.439+01	9.037-01	2.669-13	8.788-09	4	129	3.201+01	5.042-00	2.324-12	1.840-08
3	54	4.427+01	7.114-01	3.484-13	1.144-08	4	131	3.189+01	6.002-00	2.745-12	2.164-08
3	57	4.415+01	1.037-00	5.052-13	1.655-08	4	143	2.539+01	1.471-00	4.266-13	2.678-09
3	59	4.368+01	2.478-00	7.088-13	2.297-08	4	145	2.535+01	3.694-00	1.068-12	6.696-09
3	68	4.235+01	2.376-02	1.065-14	3.346-10	5	16	1.987+02	4.626-00	9.128-12	1.345-06
3	69	4.232+01	4.091-01	1.830-13	5.747-09	5	17	1.957+02	7.978-00	4.579-11	6.647-06
3	71	4.195+01	3.758-00	9.916-13	3.086-08	5	18	1.901+02	1.210+01	1.092-10	1.540-05
3	76	3.466+01	9.697+01	2.911-11	7.485-07	5	21	1.825+02	1.963-00	1.634-11	2.213-06
3	77	3.463+01	1.924+01	3.460-12	8.887-08	5	23	1.680+02	6.772-00	2.866-11	3.573-06
3	84	3.348+01	2.387+01	1.337-12	3.320-08	5	24	1.574+02	6.816-01	4.222-12	4.931-07
3	85	3.346+01	7.285-00	1.223-12	3.036-08	5	25	1.558+02	6.216+01	3.772-10	4.361-05
3	86	3.332+01	1.629-01	9.036-15	2.233-10	5	27	1.414+02	2.421+01	7.250-11	7.602-06
3	87	3.330+01	3.915-00	6.508-13	1.608-08	5	30	7.962+01	1.001+01	3.171-12	1.873-07
3	89	3.327+01	3.449-01	9.537-14	2.354-09	5	31	7.939+01	1.529+01	1.445-11	8.508-07
3	91	3.324+01	9.936-01	2.743-13	6.763-09	5	32	7.824+01	1.451+02	2.220-10	1.288-05
3	93	3.309+01	9.081-01	1.491-13	3.658-09	5	33	7.729+01	6.923-02	6.200-14	3.555-09
3	102	3.290+01	6.307-05	1.706-17	4.164-13	5	38	5.216+01	1.211+01	8.235-12	3.186-07
3	115	3.217+01	3.370-02	8.717-15	2.081-10	5	39	5.202+01	2.253-01	9.142-14	3.528-09
3	116	3.217+01	4.914-02	1.270-14	3.031-10	5	41	4.952+01	7.207+01	8.832-12	3.245-07
3	118	3.207+01	7.059-01	1.089-13	2.590-09	5	42	4.946+01	6.707+01	2.459-11	9.023-07
3	128	3.117+01	5.469-00	2.655-13	6.138-09	5	51	4.644+01	2.964-02	3.194-15	1.100-10
3	129	3.116+01	2.686-01	3.909-14	9.034-10	5	52	4.636+01	7.965-02	2.567-14	8.827-10
3	130	3.108+01	1.211+01	2.924-12	6.742-08	5	54	4.624+01	5.021-01	2.682-13	9.199-09
3	131	3.103+01	1.024-00	1.479-13	3.405-09	5	57	4.611+01	3.626-01	1.926-13	6.587-09
3	136	2.936+01	6.057-03	1.304-15	2.841-11	5	59	4.559+01	2.889-00	9.005-13	3.046-08
3	142	2.485+01	1.776-00	5.484-14	1.011-09	5	68	4.415+01	7.368-01	3.589-13	1.175-08
3	143	2.485+01	8.482-02	7.852-15	1.448-10	5	69	4.411+01	2.079-03	1.011-15	3.308-11
3	144	2.483+01	6.429-00	9.901-13	1.823-08	5	71	4.371+01	2.436-00	6.978-13	2.263-08
3	145	2.481+01	4.703-01	4.341-14	7.990-10	5	76	3.585+01	9.113-00	2.928-12	7.787-08
3	150	2.427+01	8.864-03	1.305-15	2.349-11	5	77	3.582+01	5.083-02	9.778-15	2.598-10
4	5	1.000+04	9.777-00	4.398-07	1.088-00	5	84	3.459+01	1.196+02	7.153-12	1.835-07
4	17	1.919+02	2.492-00	4.128-11	1.959-06	5	85	3.457+01	9.695+01	1.738-11	4.456-07
4	23	1.652+02	3.422-00	4.203-11	1.717-06	5	86	3.442+01	3.876-01	2.295-14	5.860-10
4	27	1.394+02	1.108+02	9.678-10	3.335-05	5	87	3.440+01	1.406-02	2.495-15	6.365-11
4	31	7.877+01	4.441+01	1.239-10	2.414-06	5	89	3.437+01	1.530-01	4.514-14	1.151-09
4	33	7.670+01	9.399-02	2.487-13	4.716-09	5	91	3.433+01	2.188-01	6.444-14	1.641-09
4	39	5.175+01	1.462-00	1.761-12	2.253-08	5	93	3.417+01	6.819-01	1.194-13	3.027-09
4	42	4.921+01	4.283+01	4.665-11	5.677-07	5	102	3.398+01	3.835-03	1.106-15	2.788-11
4	52	4.615+01	5.007-02	4.796-14	5.473-10	5	115	3.320+01	1.470-00	4.049-13	9.973-09
4	59	4.539+01	7.410-00	6.865-12	7.705-08	5	116	3.319+01	8.969-02	2.469-14	6.080-10
4	71	4.352+01	2.128-00	1.813-12	1.951-08	5	118	3.309+01	1.405-00	2.306-13	5.659-09
4	77	3.569+01	8.451-02	4.843-14	4.274-10	5	128	3.213+01	1.297+01	6.689-13	1.594-08

Table 3. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic dipole (M1) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
5	129	3.212+01	1.585-01	2.451-14	5.839-10	6	113	3.536+01	3.074+02	1.921-11	5.040-07
5	130	3.204+01	1.078+01	2.764-12	6.570-08	6	114	3.478+01	7.369-00	1.337-12	3.449-08
5	131	3.199+01	9.027-01	1.385-13	3.286-09	6	119	3.458+01	3.610+01	2.158-12	5.535-08
5	136	3.021+01	1.771-02	4.040-15	9.054-11	6	123	3.434+01	2.917-01	8.594-14	2.189-09
5	142	2.546+01	1.609+01	5.214-13	9.849-09	6	132	3.210+01	3.221-01	4.974-14	1.184-09
5	143	2.546+01	1.545-00	1.501-13	2.835-09	6	133	3.209+01	4.177-01	1.075-13	2.559-09
5	144	2.543+01	5.221-00	8.439-13	1.592-08	6	135	3.193+01	2.801-02	7.137-15	1.691-10
5	145	2.542+01	2.901-02	2.810-15	5.298-11	6	140	2.673+01	1.173+01	1.256-12	2.490-08
5	150	2.485+01	3.916-02	6.042-15	1.114-10	6	141	2.666+01	3.719+01	1.321-12	2.613-08
6	7	3.394+03	1.824+01	5.250-08	1.322-01	6	146	2.590+01	1.046-02	1.052-15	2.021-11
6	9	1.926+03	1.069+02	5.947-08	8.498-02	6	147	2.590+01	5.058-01	8.476-14	1.628-09
6	10	1.509+03	4.508+02	2.566-07	2.873-01	6	149	2.585+01	6.374-02	1.064-14	2.040-10
6	11	8.981+02	1.188+04	4.789-07	3.191-01	7	8	7.800+03	2.221+01	2.836-07	2.734-00
6	12	7.873+02	1.720+03	1.599-07	9.337-02	7	9	4.454+03	1.155+02	2.062-07	1.135-00
6	13	6.540+02	4.540+03	2.911-07	1.412-01	7	10	2.718+03	1.694+02	1.876-07	6.303-01
6	14	6.408+02	6.149+02	6.309-08	2.999-02	7	12	1.025+03	1.378+04	1.303-06	1.651-00
6	15	3.578+02	1.015+04	6.494-08	1.724-02	7	13	8.101+02	6.858-00	4.048-10	4.055-04
6	28	1.166+02	8.286+01	1.688-10	1.460-05	7	14	7.900+02	5.591-00	5.231-10	5.109-04
6	29	1.097+02	2.765+01	1.664-11	1.355-06	7	28	1.207+02	6.210+01	8.141-11	1.215-05
6	34	6.738+01	7.726-00	5.258-12	2.628-07	7	34	6.874+01	9.856+01	4.189-11	3.560-06
6	35	6.733+01	2.907-01	3.293-13	1.645-08	7	35	6.869+01	2.542-01	1.798-13	1.527-08
6	37	6.542+01	3.470-01	3.711-13	1.801-08	7	36	6.859+01	1.461+01	1.443-11	1.224-06
6	40	5.301+01	9.699+01	4.085-11	1.606-06	7	37	6.671+01	4.045-01	2.698-13	2.225-08
6	43	5.280+01	1.989+02	1.386-10	5.429-06	7	40	5.385+01	1.356+01	3.536-12	2.354-07
6	45	5.256+01	1.953+03	8.090-10	3.155-05	7	43	5.364+01	1.857+01	8.008-12	5.310-07
6	46	5.243+01	1.520+03	1.044-09	4.060-05	7	44	5.348+01	2.860+03	1.717-09	1.135-04
6	47	5.158+01	1.338+03	1.778-10	6.804-06	7	45	5.339+01	5.207+02	1.335-10	8.812-06
6	48	5.015+01	8.820+01	3.326-11	1.237-06	7	46	5.325+01	1.663+03	7.069-10	4.654-05
6	49	4.992+01	1.800-00	6.723-13	2.489-08	7	48	5.090+01	1.409+02	3.283-11	2.066-06
6	50	4.987+01	3.914+01	2.432-11	8.997-07	7	49	5.066+01	3.480-01	8.033-14	5.032-09
6	56	4.921+01	3.113+02	3.766-11	1.375-06	7	50	5.061+01	2.220-00	8.527-13	5.336-08
6	60	4.779+01	3.420-00	1.171-12	4.152-08	7	60	4.847+01	7.215-00	1.525-12	9.139-08
6	63	4.777+01	3.748-01	2.137-13	7.571-09	7	63	4.845+01	4.363-01	1.535-13	9.196-09
6	65	4.769+01	1.135-00	6.453-13	2.283-08	7	64	4.838+01	1.185-01	5.822-14	3.483-09
6	75	4.549+01	4.394-01	2.272-13	7.668-09	7	65	4.837+01	7.278-01	2.553-13	1.527-08
6	78	3.694+01	6.387+01	1.307-11	3.581-07	7	66	4.837+01	6.594-01	3.238-13	1.936-08
6	79	3.689+01	1.530+02	5.203-11	1.424-06	7	72	4.615+01	3.972-02	1.776-14	1.013-09
6	81	3.683+01	1.401+03	2.850-10	7.786-06	7	74	4.611+01	1.459-01	6.509-14	3.711-09
6	82	3.680+01	1.124+03	3.803-10	1.038-05	7	75	4.611+01	3.216-00	1.025-12	5.844-08
6	83	3.655+01	6.703+02	4.475-11	1.214-06	7	78	3.735+01	5.459-00	6.849-13	3.163-08
6	94	3.562+01	9.578-00	1.822-12	4.815-08	7	79	3.729+01	2.462+01	5.135-12	2.367-07
6	95	3.561+01	3.229-03	1.023-15	2.703-11	7	80	3.726+01	1.979+03	5.764-10	2.655-05
6	99	3.558+01	6.920-01	2.189-13	5.778-09	7	81	3.723+01	4.142+02	5.165-11	2.378-06
6	110	3.556+01	6.395+01	1.212-11	3.198-07	7	82	3.720+01	1.131+03	2.347-10	1.079-05
6	111	3.551+01	3.374-01	6.379-14	1.681-09	7	94	3.600+01	1.121+01	1.307-12	5.816-08
6	112	3.549+01	2.695+01	8.482-12	2.233-07	7	95	3.599+01	4.847-01	9.411-14	4.188-09

Table 3. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic dipole (M1) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
7	98	3.597+01	5.675-03	1.541-15	6.852-11	8	100	3.612+01	2.080-00	4.069-13	2.544-08
7	99	3.596+01	1.424-01	2.760-14	1.227-09	8	101	3.612+01	9.520-01	2.394-13	1.497-08
7	100	3.596+01	3.583-01	9.722-14	4.322-09	8	112	3.603+01	1.359-01	1.888-14	1.178-09
7	110	3.594+01	8.898+01	1.034-11	4.592-07	8	120	3.485+01	4.520-04	8.232-17	4.966-12
7	111	3.589+01	4.743-01	5.495-14	2.438-09	8	121	3.485+01	7.472-01	1.360-13	8.205-09
7	112	3.586+01	2.987-00	5.759-13	2.553-08	8	122	3.485+01	2.664-01	6.236-14	3.762-09
7	114	3.514+01	3.888-00	4.320-13	1.877-08	8	123	3.484+01	2.375-03	3.088-16	1.863-11
7	120	3.470+01	1.677-03	4.237-16	1.818-11	8	133	3.253+01	4.726-03	5.355-16	3.016-11
7	121	3.469+01	2.120-02	5.357-15	2.298-10	8	134	3.252+01	2.819-02	4.470-15	2.516-10
7	123	3.469+01	1.314-00	2.369-13	1.016-08	8	135	3.237+01	2.178-00	2.444-13	1.370-08
7	132	3.240+01	9.576-01	9.044-14	3.623-09	8	147	2.618+01	3.563-01	2.616-14	1.186-09
7	133	3.240+01	3.389-02	5.332-15	2.136-10	8	148	2.618+01	1.272-01	1.307-14	5.923-10
7	134	3.239+01	1.444-00	3.179-13	1.273-08	8	149	2.613+01	1.139-01	8.330-15	3.768-10
7	135	3.224+01	3.038-01	4.733-14	1.887-09	8	154	2.595+01	7.859-03	7.937-16	3.565-11
7	140	2.694+01	8.664-01	5.655-14	1.883-09	8	155	2.595+01	6.937-07	9.008-20	4.047-15
7	146	2.610+01	1.646-00	1.008-13	3.254-09	8	157	2.595+01	7.116-04	9.239-17	4.150-12
7	147	2.610+01	9.874-03	1.008-15	3.253-11	9	10	6.970+03	6.177-00	7.498-08	3.877-01
7	148	2.609+01	3.852-00	5.504-13	1.776-08	9	11	1.682+03	2.088+03	2.954-07	3.687-01
7	149	2.605+01	2.746-02	2.792-15	8.992-11	9	12	1.331+03	1.001+03	2.661-07	2.628-01
7	154	2.587+01	9.142-04	1.284-16	4.106-12	9	13	9.902+02	5.464+03	8.031-07	5.899-01
8	10	4.171+03	4.533-01	8.444-10	6.096-03	9	14	9.603+02	8.472+02	1.952-07	1.391-01
8	14	8.790+02	1.521+04	1.258-06	1.914-00	9	15	4.395+02	6.788+03	6.551-08	2.136-02
8	35	6.930+01	1.061+02	5.456-11	6.545-06	9	28	1.241+02	2.594+01	5.988-11	5.512-06
8	36	6.920+01	3.182-02	2.285-14	2.736-09	9	29	1.164+02	4.638+01	3.139-11	2.710-06
8	37	6.728+01	4.380+01	2.123-11	2.473-06	9	34	6.982+01	2.052+01	1.500-11	7.768-07
8	43	5.401+01	5.465+03	1.707-09	1.596-04	9	35	6.977+01	2.066-01	2.512-13	1.300-08
8	44	5.385+01	2.067+02	8.985-11	8.375-06	9	37	6.772+01	5.119-00	5.866-12	2.947-07
8	46	5.362+01	3.971+01	1.222-11	1.135-06	9	40	5.450+01	3.307+03	1.473-09	5.954-05
8	50	5.094+01	4.015-00	1.116-12	9.838-08	9	43	5.429+01	2.274+02	1.675-10	6.744-06
8	61	4.878+01	7.467-00	3.424-12	2.891-07	9	45	5.404+01	2.753+01	1.205-11	4.830-07
8	63	4.875+01	9.350-00	2.380-12	2.008-07	9	46	5.390+01	2.340+02	1.698-10	6.790-06
8	64	4.869+01	3.118-01	1.108-13	9.337-09	9	47	5.300+01	1.016+03	1.426-10	5.604-06
8	65	4.868+01	1.089-00	2.764-13	2.329-08	9	48	5.149+01	3.784-00	1.504-12	5.746-08
8	66	4.867+01	3.622-00	1.286-12	1.084-07	9	49	5.124+01	6.847+01	2.695-11	1.025-06
8	67	4.865+01	1.884-00	8.597-13	7.240-08	9	50	5.119+01	6.870+01	4.499-11	1.709-06
8	72	4.643+01	1.376-06	4.446-19	3.573-14	9	56	5.049+01	5.935+01	7.562-12	2.833-07
8	73	4.641+01	5.500-01	2.283-13	1.834-08	9	60	4.901+01	8.350-01	3.007-13	1.093-08
8	74	4.639+01	3.416-00	1.102-12	8.848-08	9	63	4.898+01	1.409-00	8.445-13	3.068-08
8	75	4.638+01	1.344-02	3.097-15	2.486-10	9	65	4.890+01	1.380-00	8.249-13	2.993-08
8	79	3.747+01	3.986+03	5.994-10	3.888-05	9	75	4.659+01	1.839-00	9.972-13	3.446-08
8	80	3.744+01	2.427+02	5.098-11	3.303-06	9	78	3.766+01	2.350+03	4.999-10	1.397-05
8	82	3.738+01	4.496+01	6.727-12	4.353-07	9	79	3.761+01	1.414+02	4.997-11	1.394-06
8	95	3.616+01	2.810-00	3.934-13	2.462-08	9	81	3.755+01	1.305+01	2.757-12	7.680-08
8	97	3.615+01	4.873-00	1.227-12	7.681-08	9	82	3.751+01	1.160+02	4.079-11	1.135-06
8	98	3.613+01	3.661-01	7.167-14	4.483-09	9	83	3.726+01	1.219+03	8.455-11	2.337-06
8	99	3.612+01	7.834-01	1.095-13	6.846-09	9	94	3.629+01	9.584-01	1.893-13	5.096-09

Table 3. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic dipole (M1) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
9	95	3.628+01	2.749-01	9.044-14	2.434-09	10	94	3.649+01	2.736-02	3.276-15	1.478-10
9	99	3.625+01	4.676-01	1.535-13	4.129-09	10	95	3.647+01	3.074-00	6.131-13	2.765-08
9	110	3.623+01	3.051-00	6.003-13	1.613-08	10	98	3.645+01	3.127-01	8.720-14	3.929-09
9	111	3.618+01	3.644+01	7.152-12	1.920-07	10	99	3.644+01	1.979-00	3.940-13	1.775-08
9	112	3.615+01	4.665+01	1.524-11	4.086-07	10	100	3.644+01	2.619-00	7.298-13	3.288-08
9	113	3.603+01	3.424+01	2.221-12	5.934-08	10	110	3.642+01	3.622-00	4.321-13	1.945-08
9	114	3.542+01	2.252+01	4.237-12	1.113-07	10	111	3.637+01	2.197+01	2.615-12	1.176-07
9	119	3.521+01	2.180-00	1.351-13	3.528-09	10	112	3.634+01	6.983-00	1.383-12	6.213-08
9	123	3.496+01	9.063-01	2.768-13	7.178-09	10	114	3.560+01	3.529+01	4.024-12	1.771-07
9	132	3.264+01	6.265-01	1.001-13	2.422-09	10	120	3.515+01	1.112-02	2.882-15	1.253-10
9	133	3.263+01	3.384-01	9.006-14	2.180-09	10	121	3.514+01	1.465-01	3.797-14	1.650-09
9	135	3.247+01	4.632-01	1.220-13	2.940-09	10	123	3.514+01	8.079-03	1.495-15	6.496-11
9	140	2.710+01	2.175-01	2.395-14	4.816-10	10	132	3.279+01	5.794-01	5.605-14	2.272-09
9	141	2.704+01	2.702-00	9.869-14	1.979-09	10	133	3.279+01	3.843-01	6.193-14	2.511-09
9	146	2.625+01	6.787-01	7.013-14	1.366-09	10	134	3.278+01	3.647-01	8.224-14	3.333-09
9	147	2.625+01	2.678-01	4.611-14	8.979-10	10	135	3.263+01	3.913-01	6.244-14	2.519-09
9	149	2.620+01	1.225-03	2.101-16	4.084-12	10	140	2.721+01	7.225-00	4.811-13	1.618-08
10	12	1.646+03	2.568-00	6.258-10	1.273-03	10	146	2.635+01	1.050-00	6.561-14	2.137-09
10	13	1.154+03	5.932+03	7.107-07	1.014-00	10	147	2.635+01	1.295-00	1.347-13	4.390-09
10	14	1.114+03	3.930+03	7.308-07	1.006-00	10	148	2.635+01	1.235-01	1.799-14	5.859-10
10	28	1.263+02	3.894+02	5.591-10	8.732-05	10	149	2.630+01	1.099-01	1.140-14	3.705-10
10	34	7.053+01	4.432-01	1.983-13	1.729-08	10	154	2.612+01	1.357-04	1.943-17	6.273-13
10	35	7.047+01	9.839-00	7.325-12	6.382-07	11	12	6.381+03	4.115-01	7.534-09	1.189-02
10	36	7.037+01	9.144-02	9.504-14	8.268-09	11	13	2.406+03	7.677+02	1.999-06	1.189-00
10	37	6.838+01	1.733+01	1.215-11	1.027-06	11	28	1.340+02	3.202+02	2.584-09	8.559-05
10	40	5.493+01	1.399+03	3.798-10	2.579-05	11	34	7.284+01	5.990-00	1.429-11	2.575-07
10	43	5.472+01	1.750+03	7.856-10	5.314-05	11	40	5.633+01	6.507+02	9.286-10	1.293-05
10	44	5.456+01	8.318+01	5.196-11	3.505-06	11	45	5.583+01	5.592+01	7.839-11	1.082-06
10	45	5.446+01	1.474+03	3.933-10	2.648-05	11	48	5.312+01	2.926-00	3.713-12	4.877-08
10	46	5.432+01	9.968+01	4.409-11	2.961-06	11	49	5.285+01	5.487+02	6.893-10	9.008-06
10	48	5.188+01	1.083-00	2.623-13	1.682-08	11	60	5.048+01	8.412-01	9.640-13	1.203-08
10	49	5.162+01	4.142+01	9.928-12	6.337-07	11	78	3.853+01	4.264+02	2.847-10	2.712-06
10	50	5.157+01	1.831+01	7.302-12	4.656-07	11	81	3.840+01	2.975+01	1.974-11	1.874-07
10	60	4.935+01	9.550-03	2.093-15	1.277-10	11	94	3.710+01	8.865-01	5.486-13	5.032-09
10	63	4.933+01	4.287-00	1.564-12	9.538-08	11	110	3.703+01	1.660+01	1.024-11	9.372-08
10	64	4.926+01	9.678-01	4.929-13	3.002-08	11	111	3.698+01	3.902+02	2.400-10	2.194-06
10	65	4.925+01	3.052-00	1.110-12	6.758-08	11	114	3.619+01	9.332+01	5.496-11	4.917-07
10	66	4.924+01	3.417-00	1.739-12	1.059-07	11	132	3.328+01	9.304-02	4.636-14	3.816-10
10	72	4.695+01	3.045-02	1.409-14	8.177-10	11	140	2.755+01	8.217-00	2.804-12	1.910-08
10	74	4.691+01	5.623-01	2.597-13	1.506-08	11	146	2.667+01	5.995-01	1.918-13	1.265-09
10	75	4.690+01	9.632-02	3.177-14	1.842-09	12	13	3.863+03	9.373-00	2.097-08	6.009-02
10	78	3.787+01	9.301+02	1.200-10	5.617-06	12	14	3.445+03	1.807+02	5.358-07	1.369-00
10	79	3.781+01	1.284+03	2.751-10	1.286-05	12	15	6.559+02	7.386+01	1.588-09	7.727-04
10	80	3.777+01	8.611+01	2.579-11	1.204-06	12	28	1.368+02	3.761+01	1.056-10	1.071-05
10	81	3.775+01	1.252+03	1.605-10	7.489-06	12	29	1.275+02	1.160-00	9.429-13	8.919-08
10	82	3.772+01	1.245+02	2.655-11	1.238-06	12	34	7.368+01	3.119-00	2.539-12	1.388-07

Table 3. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic dipole (M1) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
12	35	7.362+01	5.579+01	7.556-11	4.127-06	13	43	5.744+01	1.770+01	1.460-11	6.219-07
12	37	7.135+01	2.090+01	2.659-11	1.407-06	13	45	5.715+01	9.623+01	4.713-11	1.998-06
12	40	5.683+01	1.433+02	6.938-11	2.925-06	13	46	5.700+01	4.888+01	3.968-11	1.678-06
12	43	5.660+01	2.567+01	2.055-11	8.628-07	13	47	5.599+01	1.368+03	2.143-10	8.901-06
12	45	5.632+01	3.453-00	1.642-12	6.861-08	13	48	5.432+01	1.007+03	4.455-10	1.795-05
12	46	5.617+01	5.369-01	4.233-13	1.764-08	13	49	5.404+01	9.774+01	4.279-11	1.715-06
12	47	5.519+01	5.727-00	8.719-13	3.570-08	13	50	5.399+01	8.173+01	5.952-11	2.384-06
12	48	5.356+01	1.368+01	5.884-12	2.338-07	13	56	5.321+01	4.248+03	6.010-10	2.372-05
12	49	5.329+01	1.167+03	4.968-10	1.964-05	13	60	5.156+01	4.645-01	1.851-13	7.081-09
12	50	5.324+01	3.110+03	2.203-09	8.701-05	13	63	5.153+01	3.124-01	2.073-13	7.924-09
12	56	5.249+01	1.236+02	1.702-11	6.627-07	13	65	5.145+01	9.437-04	6.241-16	2.382-11
12	60	5.088+01	1.478-01	5.738-14	2.166-09	13	75	4.889+01	1.097+01	6.554-12	2.377-07
12	63	5.085+01	1.374-02	8.879-15	3.349-10	13	78	3.915+01	1.826+01	4.196-12	1.219-07
12	65	5.077+01	4.211-01	2.712-13	1.022-08	13	79	3.909+01	1.141+01	4.357-12	1.264-07
12	75	4.828+01	6.931-00	4.037-12	1.446-07	13	81	3.903+01	5.090+01	1.162-11	3.365-07
12	78	3.876+01	6.951+01	1.566-11	4.502-07	13	82	3.899+01	4.125+01	1.567-11	4.532-07
12	79	3.870+01	1.320+01	4.940-12	1.418-07	13	83	3.872+01	2.113+02	1.583-11	4.546-07
12	81	3.864+01	5.125-00	1.147-12	3.288-08	13	94	3.768+01	1.636+01	3.482-12	9.732-08
12	82	3.860+01	4.465-01	1.662-13	4.760-09	13	95	3.766+01	9.227-01	3.270-13	9.136-09
12	83	3.833+01	1.349-00	9.906-14	2.817-09	13	99	3.763+01	1.011-02	3.577-15	9.983-11
12	94	3.731+01	1.381-00	2.883-13	7.978-09	13	110	3.760+01	8.237+02	1.746-10	4.871-06
12	95	3.730+01	8.772-00	3.049-12	8.437-08	13	111	3.755+01	7.780+01	1.645-11	4.583-07
12	99	3.727+01	1.044-00	3.623-13	1.002-08	13	112	3.753+01	7.348+01	2.585-11	7.197-07
12	110	3.724+01	7.845-01	1.631-13	4.506-09	13	113	3.738+01	4.367+03	3.050-10	8.458-06
12	111	3.719+01	7.820+02	1.622-10	4.475-06	13	114	3.674+01	3.673+01	7.431-12	2.025-07
12	112	3.716+01	2.083+03	7.190-10	1.982-05	13	119	3.651+01	1.407-01	9.370-15	2.538-10
12	113	3.703+01	1.495+02	1.024-11	2.813-07	13	123	3.624+01	6.617-00	2.171-12	5.838-08
12	114	3.639+01	2.827+01	5.613-12	1.515-07	13	132	3.375+01	1.494-01	2.551-14	6.387-10
12	119	3.617+01	1.142-01	7.468-15	2.004-10	13	133	3.375+01	5.477-02	1.558-14	3.901-10
12	123	3.590+01	2.860-00	9.211-13	2.453-08	13	135	3.358+01	1.508-02	4.248-15	1.058-10
12	132	3.346+01	3.127-02	5.247-15	1.302-10	13	140	2.786+01	9.301-01	1.083-13	2.238-09
12	133	3.345+01	4.837-06	1.353-18	3.357-14	13	141	2.780+01	9.646-00	3.724-13	7.678-09
12	135	3.328+01	1.524-00	4.219-13	1.042-08	13	146	2.697+01	9.994-01	1.090-13	2.180-09
12	140	2.766+01	7.086-01	8.130-14	1.668-09	13	147	2.697+01	4.348-04	7.900-17	1.580-12
12	141	2.760+01	3.815-01	1.452-14	2.973-10	13	149	2.691+01	6.924-02	1.253-14	2.501-10
12	146	2.678+01	2.296-02	2.469-15	4.904-11	14	28	1.425+02	1.008+02	1.840-10	3.241-05
12	147	2.678+01	4.649-01	8.330-14	1.655-09	14	34	7.529+01	2.544-00	1.297-12	1.208-07
12	149	2.673+01	7.875-05	1.405-17	2.786-13	14	35	7.523+01	6.182-04	5.245-16	4.879-11
13	14	3.182+04	1.409-01	3.565-08	8.416-01	14	36	7.511+01	5.647+01	6.687-11	6.210-06
13	15	7.901+02	3.637+03	1.135-07	6.651-02	14	37	7.286+01	9.868-00	7.853-12	7.074-07
13	28	1.419+02	3.099+02	9.349-10	9.838-05	14	40	5.778+01	3.453-02	1.037-14	7.409-10
13	29	1.319+02	9.601+01	8.343-11	8.162-06	14	43	5.754+01	2.540-01	1.261-13	8.971-09
13	34	7.512+01	1.205-00	1.019-12	5.679-08	14	44	5.737+01	2.588-00	1.787-12	1.268-07
13	35	7.505+01	9.145-01	1.287-12	7.167-08	14	45	5.726+01	5.547-00	1.636-12	1.158-07
13	37	7.269+01	1.506+01	1.988-11	1.072-06	14	46	5.710+01	1.665+01	8.141-12	5.748-07
13	40	5.768+01	2.460+01	1.227-11	5.250-07	14	48	5.441+01	5.613+03	1.495-09	1.006-04

Table 3. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic dipole (M1) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
14	49	5.413+01	2.570+01	6.774-12	4.533-07	15	94	3.956+01	1.362-01	9.586-14	9.378-10
14	50	5.408+01	2.267+02	9.939-11	6.645-06	15	110	3.948+01	4.445+01	3.116-11	3.043-07
14	60	5.164+01	2.967-01	7.119-14	4.545-09	15	111	3.943+01	9.009+02	6.299-10	6.141-06
14	63	5.161+01	1.151-02	4.597-15	2.933-10	15	114	3.853+01	2.526+01	1.687-11	1.607-07
14	64	5.154+01	5.446-01	3.037-13	1.935-08	15	132	3.526+01	1.253-01	7.005-14	6.108-10
14	65	5.153+01	3.992-05	1.589-17	1.012-12	15	140	2.888+01	2.471-01	9.270-14	6.620-10
14	66	5.152+01	1.818-03	1.013-15	6.451-11	15	146	2.792+01	1.002-02	3.513-15	2.425-11
14	72	4.901+01	6.969-00	3.514-12	2.130-07	16	17	1.274+04	7.972-00	5.817-07	1.832-00
14	74	4.897+01	4.934-00	2.483-12	1.504-07	16	23	1.088+03	6.881+02	3.663-07	9.854-02
14	75	4.897+01	4.087-03	1.469-15	8.894-11	16	27	4.896+02	4.406+03	4.750-07	5.751-02
14	78	3.920+01	2.461-01	3.402-14	1.649-09	16	31	1.322+02	3.217+01	2.530-10	8.271-06
14	79	3.914+01	7.864-01	1.806-13	8.741-09	16	33	1.265+02	1.199+02	8.630-10	2.699-05
14	80	3.910+01	2.048-00	6.572-13	3.177-08	16	39	7.047+01	5.568-00	1.244-11	2.167-07
14	81	3.908+01	1.943-01	2.669-14	1.289-09	16	42	6.584+01	9.524-01	1.857-12	3.023-08
14	82	3.904+01	1.248+01	2.852-12	1.377-07	16	52	6.047+01	1.482+01	2.437-11	3.644-07
14	94	3.772+01	1.264+02	1.618-11	7.543-07	16	59	5.917+01	6.008-02	9.461-14	1.384-09
14	95	3.771+01	2.006-00	4.276-13	1.993-08	16	71	5.604+01	9.516-00	1.344-11	1.863-07
14	98	3.768+01	2.581-01	7.691-14	3.583-09	16	77	4.370+01	2.151-00	1.847-12	1.996-08
14	99	3.767+01	2.282-03	4.856-16	2.262-11	16	85	4.186+01	1.252-00	9.864-13	1.021-08
14	100	3.767+01	7.681-03	2.288-15	1.066-10	16	87	4.160+01	1.852+01	1.441-11	1.482-07
14	110	3.765+01	3.900+03	4.973-10	2.315-05	16	93	4.127+01	2.684-01	2.056-13	2.098-09
14	111	3.760+01	1.788+02	2.273-11	1.057-06	16	118	3.970+01	5.880-01	4.169-13	4.092-09
14	112	3.757+01	2.621+02	5.547-11	2.577-06	16	129	3.831+01	5.959-03	3.933-15	3.726-11
14	114	3.678+01	2.636+01	3.208-12	1.459-07	16	131	3.813+01	5.031+01	3.289-11	3.101-07
14	120	3.629+01	4.257-00	1.177-12	5.281-08	16	143	2.920+01	2.116-01	8.113-14	5.858-10
14	121	3.629+01	1.870-00	5.169-13	2.319-08	16	145	2.915+01	3.277+01	1.252-11	9.023-08
14	123	3.628+01	3.048-03	6.016-16	2.699-11	17	18	6.661+03	4.328+01	4.797-07	2.370-00
14	132	3.379+01	6.317-01	6.487-14	2.710-09	17	21	2.720+03	1.124+01	2.079-08	4.194-02
14	133	3.378+01	5.911-07	1.011-19	4.224-15	17	23	1.190+03	1.633+03	3.463-07	3.056-01
14	134	3.377+01	4.934-01	1.181-13	4.931-09	17	24	8.059+02	6.685+02	1.085-07	6.485-02
14	135	3.361+01	2.052-02	3.474-15	1.444-10	17	25	7.658+02	1.732+03	2.537-07	1.441-01
14	140	2.789+01	3.138-00	2.195-13	7.570-09	17	27	5.092+02	7.693+03	2.990-07	1.129-01
14	146	2.699+01	4.193-00	2.747-13	9.167-09	17	30	1.343+02	1.301-00	1.172-12	1.167-07
14	147	2.699+01	3.261-03	3.561-16	1.188-11	17	31	1.336+02	7.650+01	2.047-10	2.029-05
14	148	2.698+01	1.002-00	1.531-13	5.109-09	17	32	1.304+02	1.581-00	6.715-12	6.494-07
14	149	2.693+01	4.895-02	5.324-15	1.773-10	17	33	1.278+02	1.189+02	2.909-10	2.757-05
14	154	2.674+01	2.015-03	3.025-16	1.000-11	17	38	7.112+01	1.998-00	2.526-12	1.333-07
15	28	1.729+02	1.304+01	1.754-10	7.497-06	17	39	7.086+01	4.739-00	3.568-12	1.875-07
15	34	8.301+01	2.197-01	6.808-13	1.397-08	17	41	6.630+01	2.815-00	6.185-13	3.042-08
15	40	6.222+01	7.393+02	1.287-09	1.981-05	17	42	6.619+01	1.623-00	1.066-12	5.234-08
15	45	6.161+01	1.091+02	1.863-10	2.838-06	17	51	6.089+01	1.002-01	1.857-14	8.388-10
15	48	5.833+01	8.262-00	1.264-11	1.823-07	17	52	6.076+01	9.653+01	5.343-11	2.408-06
15	49	5.801+01	1.881+03	2.847-09	4.083-05	17	54	6.054+01	7.425+01	6.800-11	3.054-06
15	60	5.516+01	1.479-00	2.024-12	2.760-08	17	57	6.032+01	4.836-00	4.397-12	1.967-07
15	78	4.119+01	4.375+02	3.339-10	3.401-06	17	59	5.945+01	2.629-01	1.393-13	6.142-09
15	81	4.106+01	3.776+01	2.863-11	2.906-07	17	68	5.702+01	4.533-01	3.682-13	1.557-08

Table 3. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic dipole (M1) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
17	69	5.695+01	1.040-00	8.427-13	3.560-08	18	69	5.744+01	2.487-00	1.231-12	8.739-08
17	71	5.629+01	1.880+01	8.932-12	3.730-07	18	70	5.736+01	1.401-00	9.676-13	6.862-08
17	76	4.390+01	3.573-01	1.721-13	5.603-09	18	71	5.677+01	2.494+01	7.229-12	5.074-07
17	77	4.385+01	1.835-00	5.289-13	1.720-08	18	76	4.419+01	7.933-02	2.323-14	1.269-09
17	84	4.202+01	8.199-01	7.233-14	2.254-09	18	77	4.414+01	5.129-02	8.989-15	4.906-10
17	85	4.199+01	4.809-02	1.271-14	3.961-10	18	85	4.226+01	2.234-00	3.589-13	1.875-08
17	86	4.177+01	2.258-00	1.969-13	6.100-09	18	87	4.200+01	9.095-00	1.443-12	7.493-08
17	87	4.174+01	6.987+01	1.825-11	5.649-07	18	89	4.195+01	1.747+02	4.610-11	2.391-06
17	89	4.169+01	6.625+01	2.877-11	8.896-07	18	90	4.194+01	1.198+01	4.423-12	2.294-07
17	91	4.164+01	2.637-00	1.143-12	3.529-08	18	91	4.190+01	1.868-00	4.916-13	2.547-08
17	93	4.141+01	1.374-00	3.532-13	1.085-08	18	92	4.188+01	6.709+01	2.469-11	1.279-06
17	102	4.112+01	7.755-01	3.276-13	9.991-09	18	93	4.167+01	5.711+01	8.918-12	4.594-07
17	115	3.999+01	2.557-01	1.021-13	3.030-09	18	102	4.137+01	6.837-01	1.754-13	8.974-09
17	116	3.997+01	7.012-01	2.799-13	8.301-09	18	103	4.137+01	2.908-01	1.044-13	5.342-09
17	118	3.983+01	8.778-01	2.087-13	6.166-09	18	106	4.135+01	1.630-00	5.848-13	2.989-08
17	128	3.844+01	2.257+01	1.667-12	4.753-08	18	115	4.023+01	1.226-00	2.974-13	1.479-08
17	129	3.842+01	1.064+01	2.354-12	6.710-08	18	116	4.021+01	9.744-00	2.362-12	1.175-07
17	130	3.831+01	2.403+01	8.812-12	2.505-07	18	117	4.019+01	7.592-01	2.574-13	1.279-08
17	131	3.824+01	2.511+01	5.504-12	1.561-07	18	118	4.006+01	2.073+01	2.992-12	1.482-07
17	136	3.573+01	6.187-01	1.974-13	5.231-09	18	124	3.967+01	1.374-01	4.540-14	2.227-09
17	142	2.927+01	2.127+01	9.108-13	1.978-08	18	129	3.865+01	5.184+01	6.964-12	3.328-07
17	143	2.927+01	8.266-00	1.061-12	2.304-08	18	130	3.853+01	3.959-00	8.813-13	4.199-08
17	144	2.923+01	2.234+01	4.771-12	1.035-07	18	131	3.846+01	9.095-00	1.210-12	5.755-08
17	145	2.921+01	1.038+01	1.328-12	2.879-08	18	136	3.592+01	5.397-01	1.044-13	4.637-09
17	150	2.846+01	3.236-01	6.552-14	1.383-09	18	137	3.592+01	7.479-01	2.025-13	8.994-09
18	20	1.335+04	1.389-01	5.195-09	8.574-02	18	139	3.590+01	8.051-01	2.178-13	9.665-09
18	21	4.597+03	9.133-02	2.894-10	1.645-03	18	143	2.940+01	5.024+01	3.905-12	1.419-07
18	22	3.270+03	6.072+01	1.363-07	5.511-01	18	144	2.936+01	6.511-00	8.415-13	3.055-08
18	23	1.448+03	7.262+02	1.370-07	2.453-01	18	145	2.934+01	1.077+01	8.343-13	3.027-08
18	24	9.168+02	5.537+02	6.978-08	7.910-02	18	150	2.859+01	2.407-01	2.949-14	1.042-09
18	25	8.652+02	7.172+03	8.050-07	8.611-01	18	151	2.859+01	3.954-01	6.782-14	2.397-09
18	26	8.326+02	1.422+03	2.068-07	2.129-01	18	153	2.858+01	1.871-01	3.207-14	1.133-09
18	27	5.513+02	1.073+03	2.934-08	2.000-02	19	20	1.500+04	5.053-00	1.326-07	4.425-00
18	31	1.364+02	1.635-01	2.734-13	4.608-08	19	22	3.361+03	1.268+01	1.670-08	1.249-01
18	32	1.330+02	7.787+01	2.064-10	3.393-05	19	26	8.383+02	1.426+04	1.168-06	2.180-00
18	33	1.302+02	9.276-00	1.416-11	2.280-06	19	53	6.118+01	1.827+02	1.025-10	1.396-05
18	38	7.189+01	1.139-01	8.824-14	7.843-09	19	55	6.109+01	1.967+02	8.559-11	1.164-05
18	39	7.162+01	2.860-02	1.320-14	1.169-09	19	58	6.079+01	3.448+01	1.486-11	2.010-06
18	42	6.685+01	4.969-00	1.998-12	1.651-07	19	70	5.739+01	4.185-00	1.607-12	2.052-07
18	52	6.132+01	1.579+01	5.341-12	4.049-07	19	88	4.198+01	1.971+02	5.207-11	4.865-06
18	54	6.110+01	2.269+02	1.270-10	9.591-06	19	90	4.196+01	1.397+02	2.868-11	2.678-06
18	55	6.106+01	1.643+01	1.286-11	9.710-07	19	92	4.189+01	3.913+01	8.007-12	7.465-07
18	57	6.087+01	3.117-00	1.732-12	1.303-07	19	103	4.138+01	1.215-00	2.427-13	2.235-08
18	58	6.076+01	8.900+01	6.896-11	5.180-06	19	104	4.137+01	2.800-00	8.781-13	8.084-08
18	59	5.998+01	3.449+01	1.116-11	8.277-07	19	106	4.136+01	5.752-02	1.147-14	1.056-09
18	68	5.751+01	8.436-01	4.183-13	2.974-08	19	107	4.136+01	1.502-01	3.852-14	3.545-09

Table 3. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic dipole (M1) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
19	108	4.135+01	5.390-01	1.381-13	1.271-08	20	136	3.602+01	2.351+01	3.267-12	2.037-07
19	109	4.135+01	2.996-01	9.385-14	8.635-09	20	137	3.602+01	5.039-01	9.800-14	6.109-09
19	117	4.021+01	6.894-01	1.300-13	1.163-08	20	138	3.601+01	3.039-01	7.595-14	4.734-09
19	124	3.969+01	6.425-02	1.180-14	1.042-09	20	139	3.600+01	4.636-03	9.005-16	5.611-11
19	125	3.968+01	1.290-01	3.046-14	2.690-09	20	144	2.943+01	8.020-01	7.437-14	3.788-09
19	126	3.968+01	1.500-03	3.539-16	3.125-11	20	150	2.865+01	8.087-00	7.107-13	3.524-08
19	127	3.968+01	4.506-02	1.300-14	1.148-09	20	151	2.865+01	2.425-01	2.984-14	1.480-09
19	137	3.593+01	1.210+01	1.821-12	1.456-07	20	152	2.865+01	1.428-02	2.259-15	1.120-10
19	138	3.592+01	1.382-01	2.673-14	2.137-09	20	153	2.864+01	1.312-01	1.613-14	7.993-10
19	139	3.591+01	1.013+01	1.524-12	1.218-07	21	22	1.133+04	2.943-00	7.927-08	1.110-00
19	151	2.859+01	7.176-00	6.841-13	4.353-08	21	23	2.114+03	7.793+02	3.133-07	8.188-01
19	152	2.859+01	7.817-00	9.580-13	6.095-08	21	24	1.145+03	3.612+03	7.102-07	1.006-00
19	153	2.858+01	6.087-01	5.799-14	3.689-09	21	25	1.066+03	9.637+02	1.641-07	2.163-01
20	21	7.012+03	3.600+01	1.896-07	2.301-00	21	26	1.017+03	3.514+02	7.625-08	9.584-02
20	22	4.331+03	2.285+01	6.428-08	4.819-01	21	27	6.264+02	6.979+03	2.463-07	1.908-01
20	24	9.844+02	1.254+04	1.301-06	2.218-00	21	31	1.405+02	8.050+01	1.430-10	2.484-05
20	25	9.252+02	2.763+02	2.533-08	4.056-02	21	32	1.369+02	7.547-00	2.121-11	3.591-06
20	26	8.880+02	2.432+01	2.875-09	4.418-03	21	33	1.341+02	5.626+01	9.094-11	1.507-05
20	32	1.343+02	1.160+01	2.240-11	5.209-06	21	38	7.303+01	3.142-03	2.512-15	2.268-10
20	38	7.228+01	1.016-01	5.686-14	7.114-09	21	39	7.276+01	2.725-00	1.297-12	1.167-07
20	53	6.143+01	3.111+01	2.263-11	2.407-06	21	42	6.784+01	1.249-00	5.169-13	4.336-08
20	54	6.138+01	6.180-00	2.493-12	2.649-07	21	52	6.215+01	8.922+01	3.100-11	2.382-06
20	55	6.134+01	4.960+01	2.798-11	2.971-06	21	54	6.192+01	5.962+01	3.427-11	2.624-06
20	57	6.115+01	4.763-00	1.907-12	2.019-07	21	55	6.188+01	1.568-02	1.260-14	9.642-10
20	58	6.104+01	2.017+01	1.126-11	1.190-06	21	57	6.169+01	1.101+01	6.283-12	4.792-07
20	68	5.776+01	8.939-00	3.193-12	3.193-07	21	58	6.157+01	7.809-00	6.214-12	4.730-07
20	69	5.769+01	3.981-01	1.419-13	1.417-08	21	59	6.077+01	1.580+01	5.250-12	3.945-07
20	70	5.761+01	2.201-00	1.095-12	1.092-07	21	68	5.824+01	2.259-00	1.149-12	8.271-08
20	76	4.434+01	6.381-02	1.343-14	1.031-09	21	69	5.817+01	6.625-02	3.361-14	2.417-09
20	88	4.210+01	2.310+01	7.891-12	5.750-07	21	70	5.808+01	7.967-01	5.642-13	4.051-08
20	89	4.208+01	4.915-00	9.321-13	6.790-08	21	71	5.748+01	1.166+01	3.466-12	2.463-07
20	90	4.208+01	5.299+01	1.407-11	1.024-06	21	76	4.462+01	6.448-04	1.925-16	1.062-11
20	91	4.203+01	9.846-00	1.863-12	1.355-07	21	77	4.457+01	1.026-00	1.833-13	1.010-08
20	92	4.201+01	9.926-00	2.626-12	1.910-07	21	85	4.265+01	2.338-01	3.825-14	2.017-09
20	102	4.150+01	1.197-00	2.207-13	1.585-08	21	87	4.239+01	6.532+01	1.055-11	5.531-07
20	103	4.150+01	4.764-04	1.230-16	8.833-12	21	89	4.234+01	3.929+01	1.056-11	5.526-07
20	106	4.147+01	1.283-01	3.309-14	2.375-09	21	90	4.233+01	9.932-01	3.735-13	1.955-08
20	107	4.147+01	3.224-02	1.069-14	7.672-10	21	91	4.229+01	2.145+01	5.752-12	3.007-07
20	108	4.146+01	1.556-01	5.156-14	3.700-09	21	92	4.226+01	2.302-00	8.630-13	4.509-08
20	115	4.035+01	6.687-00	1.166-12	8.142-08	21	93	4.205+01	2.901+01	4.614-12	2.399-07
20	116	4.034+01	4.441-01	7.737-14	5.402-09	21	102	4.175+01	1.114-02	2.910-15	1.502-10
20	117	4.031+01	3.147-00	7.668-13	5.350-08	21	103	4.174+01	7.626-02	2.789-14	1.439-09
20	124	3.979+01	1.706-01	4.049-14	2.789-09	21	106	4.172+01	3.729-01	1.362-13	7.026-09
20	125	3.979+01	4.765-02	1.454-14	1.001-09	21	115	4.058+01	3.362-01	8.302-14	4.166-09
20	126	3.978+01	3.448-03	1.052-15	7.244-11	21	116	4.057+01	2.132-02	5.261-15	2.639-10
20	130	3.865+01	4.091-01	6.543-14	4.376-09	21	117	4.055+01	4.096-01	1.413-13	7.085-09

Table 3. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic dipole (M1) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
21	118	4.042+01	2.819-00	4.143-13	2.070-08	22	137	3.632+01	4.203-00	8.311-13	5.225-08
21	124	4.002+01	2.312-01	7.772-14	3.845-09	22	138	3.631+01	2.132-01	5.418-14	3.405-09
21	129	3.897+01	2.255-00	3.081-13	1.485-08	22	139	3.630+01	6.788-00	1.341-12	8.424-08
21	130	3.886+01	2.861-02	6.477-15	3.112-10	22	144	2.963+01	6.981-01	6.563-14	3.366-09
21	131	3.878+01	1.274-00	1.724-13	8.268-09	22	150	2.884+01	2.266-03	2.018-16	1.007-11
21	136	3.620+01	1.258+01	2.472-12	1.106-07	22	151	2.884+01	4.055-01	5.055-14	2.523-09
21	137	3.620+01	1.564-02	4.302-15	1.925-10	22	152	2.884+01	3.830-01	6.138-14	3.064-09
21	139	3.618+01	8.077-01	2.219-13	9.927-09	22	153	2.883+01	2.084-01	2.597-14	1.296-09
21	143	2.958+01	1.228-00	9.668-14	3.536-09	23	24	2.499+03	1.083+02	1.689-07	3.131-01
21	144	2.955+01	8.660-02	1.134-14	4.142-10	23	25	2.150+03	1.160+03	1.339-06	2.135-00
21	145	2.953+01	1.270-01	9.963-15	3.638-10	23	27	8.902+02	1.966+03	2.336-07	1.542-01
21	150	2.876+01	3.191-00	3.959-13	1.408-08	23	30	1.514+02	2.855+01	3.269-11	3.670-06
21	151	2.876+01	8.962-02	1.556-14	5.535-10	23	31	1.505+02	9.144+01	3.106-10	3.468-05
21	153	2.876+01	7.481-01	1.298-13	4.616-09	23	32	1.464+02	5.520+01	2.956-10	3.211-05
22	24	1.274+03	1.684+02	2.928-08	6.456-02	23	33	1.431+02	1.381+01	4.242-11	4.504-06
22	25	1.176+03	4.488+03	6.652-07	1.355-00	23	38	7.564+01	1.591-00	2.275-12	1.276-07
22	26	1.117+03	4.507+03	8.429-07	1.630-00	23	39	7.535+01	9.817-01	8.356-13	4.671-08
22	32	1.386+02	1.038+02	2.135-10	5.121-05	23	41	7.022+01	8.010-01	1.974-13	1.028-08
22	38	7.351+01	1.023-01	5.921-14	7.533-09	23	42	7.009+01	1.954-00	1.439-12	7.483-08
22	53	6.232+01	1.512+01	1.132-11	1.221-06	23	51	6.418+01	2.420+02	4.980-11	2.371-06
22	54	6.226+01	1.124+01	4.666-12	5.029-07	23	52	6.403+01	8.309+01	5.107-11	2.426-06
22	55	6.222+01	1.716+01	9.960-12	1.073-06	23	54	6.379+01	3.341-01	3.397-13	1.607-08
22	57	6.203+01	1.793+02	7.388-11	7.932-06	23	57	6.354+01	2.302-02	2.322-14	1.095-09
22	58	6.191+01	1.220+02	7.012-11	7.514-06	23	59	6.257+01	2.766-00	1.623-12	7.535-08
22	68	5.854+01	2.894-01	1.062-13	1.076-08	23	68	5.989+01	1.152+01	1.032-11	4.586-07
22	69	5.847+01	7.256-00	2.656-12	2.688-07	23	69	5.982+01	1.577+01	1.410-11	6.256-07
22	70	5.838+01	4.693-00	2.398-12	2.423-07	23	71	5.909+01	1.464-00	7.664-13	3.359-08
22	76	4.480+01	5.771-02	1.240-14	9.616-10	23	76	4.558+01	3.160-01	1.641-13	5.548-09
22	88	4.251+01	1.758+01	6.124-12	4.506-07	23	77	4.553+01	5.913-01	1.837-13	6.205-09
22	89	4.249+01	6.170-00	1.193-12	8.776-08	23	84	4.355+01	1.381-00	1.309-13	4.230-09
22	90	4.249+01	1.699+01	4.598-12	3.382-07	23	85	4.353+01	1.825-00	5.186-13	1.675-08
22	91	4.245+01	1.528+02	2.949-11	2.166-06	23	86	4.329+01	1.718+02	1.608-11	5.165-07
22	92	4.242+01	1.368+02	3.689-11	2.709-06	23	87	4.325+01	5.659+01	1.587-11	5.093-07
22	102	4.190+01	4.763-04	8.955-17	6.495-12	23	89	4.320+01	1.603-00	7.477-13	2.396-08
22	103	4.190+01	2.887-01	7.599-14	5.511-09	23	91	4.315+01	1.042-00	4.847-13	1.552-08
22	106	4.188+01	8.153-01	2.143-13	1.554-08	23	93	4.290+01	2.078+01	5.732-12	1.824-07
22	107	4.187+01	2.435-01	8.230-14	5.965-09	23	102	4.259+01	6.879-01	3.117-13	9.849-09
22	108	4.186+01	2.122-00	7.169-13	5.195-08	23	115	4.138+01	5.425-00	2.321-12	7.123-08
22	115	4.073+01	8.319-04	1.478-16	1.042-11	23	116	4.136+01	3.684-00	1.575-12	4.833-08
22	116	4.072+01	2.747-00	4.876-13	3.437-08	23	118	4.120+01	3.530-00	8.985-13	2.746-08
22	117	4.069+01	1.237-00	3.072-13	2.163-08	23	128	3.972+01	6.116-01	4.823-14	1.421-09
22	124	4.016+01	6.740-03	1.630-15	1.133-10	23	129	3.971+01	7.403-01	1.750-13	5.154-09
22	125	4.016+01	9.715-02	3.020-14	2.099-09	23	130	3.959+01	4.225-02	1.654-14	4.859-10
22	126	4.015+01	2.914-02	9.057-15	6.295-10	23	131	3.951+01	1.550-03	3.628-16	1.063-11
22	130	3.899+01	2.596-00	4.227-13	2.853-08	23	136	3.683+01	5.908-00	2.003-12	5.473-08
22	136	3.632+01	8.058-01	1.138-13	7.156-09	23	142	3.001+01	3.041-00	1.369-13	3.047-09

Table 3. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic dipole (M1) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
23	143	3.000+01	4.218-02	5.693-15	1.267-10	24	143	3.037+01	6.526-03	5.414-16	2.033-11
23	144	2.997+01	8.301-02	1.863-14	4.142-10	24	144	3.033+01	4.067-02	5.611-15	2.104-10
23	145	2.995+01	5.515-02	7.415-15	1.647-10	24	145	3.031+01	2.033-01	1.680-14	6.298-10
23	150	2.916+01	2.224-00	4.726-13	1.022-08	24	150	2.951+01	1.674-00	2.185-13	7.972-09
24	25	1.538+04	1.486-04	5.266-12	1.001-04	24	151	2.950+01	3.759-00	6.869-13	2.506-08
24	26	9.060+03	1.224+01	2.110-07	2.363-00	24	153	2.950+01	1.965-00	3.588-13	1.308-08
24	27	1.383+03	2.370+02	4.076-08	6.968-02	25	26	2.205+04	3.256-01	3.323-08	9.061-01
24	31	1.602+02	3.374+01	7.785-11	1.542-05	25	27	1.520+03	1.425+03	2.960-07	5.560-01
24	32	1.555+02	8.421-00	3.054-11	5.871-06	25	31	1.619+02	1.269-00	2.989-12	5.981-07
24	33	1.518+02	9.199-00	1.907-11	3.580-06	25	32	1.571+02	1.133+02	4.194-10	8.146-05
24	38	7.801+01	1.791-01	1.634-13	1.576-08	25	33	1.533+02	2.735+02	5.784-10	1.097-04
24	39	7.769+01	1.229-00	6.672-13	6.409-08	25	38	7.840+01	9.287-02	8.559-14	8.297-09
24	42	7.211+01	9.711-02	4.542-14	4.049-09	25	39	7.809+01	3.833-00	2.103-12	2.030-07
24	52	6.571+01	8.663-00	3.365-12	2.734-07	25	42	7.245+01	9.327-00	4.403-12	3.944-07
24	54	6.546+01	2.796-00	1.796-12	1.454-07	25	52	6.600+01	4.374-01	1.714-13	1.398-08
24	55	6.542+01	6.223-04	5.590-16	4.521-11	25	54	6.574+01	1.066+01	6.906-12	5.613-07
24	57	6.520+01	1.540-02	9.815-15	7.912-10	25	55	6.570+01	1.934-00	1.752-12	1.423-07
24	58	6.507+01	2.526-01	2.245-13	1.806-08	25	57	6.548+01	3.949-01	2.538-13	2.055-08
24	59	6.418+01	9.085-00	3.366-12	2.671-07	25	58	6.535+01	1.572-00	1.409-12	1.138-07
24	68	6.136+01	8.708+01	4.915-11	3.729-06	25	59	6.445+01	1.364+02	5.097-11	4.061-06
24	69	6.128+01	2.012+01	1.133-11	8.585-07	25	68	6.160+01	2.955-00	1.682-12	1.281-07
24	70	6.119+01	6.745+01	5.301-11	4.010-06	25	69	6.153+01	8.055+01	4.572-11	3.478-06
24	71	6.052+01	7.709-00	2.540-12	1.900-07	25	70	6.143+01	2.979+01	2.360-11	1.792-06
24	76	4.643+01	1.370-01	4.426-14	2.541-09	25	71	6.076+01	2.586+01	8.586-12	6.449-07
24	77	4.637+01	4.734-01	9.158-14	5.250-09	25	76	4.657+01	5.188-02	1.687-14	9.712-10
24	85	4.430+01	8.492-04	1.499-16	8.212-12	25	77	4.651+01	1.621-00	3.154-13	1.814-08
24	87	4.401+01	4.269-00	7.439-13	4.048-08	25	85	4.443+01	2.018-00	3.583-13	1.968-08
24	89	4.396+01	1.409-00	4.083-13	2.219-08	25	87	4.414+01	2.755-01	4.829-14	2.635-09
24	90	4.396+01	1.503-02	6.096-15	3.313-10	25	89	4.409+01	9.315-00	2.715-12	1.480-07
24	91	4.391+01	4.043-02	1.169-14	6.345-10	25	90	4.408+01	1.079-00	4.401-13	2.399-08
24	92	4.388+01	1.037-01	4.190-14	2.273-09	25	91	4.403+01	8.584-02	2.496-14	1.359-09
24	93	4.365+01	1.291-00	2.213-13	1.194-08	25	92	4.401+01	2.239-00	9.100-13	4.951-08
24	102	4.333+01	1.566-02	4.408-15	2.361-10	25	93	4.377+01	4.586+01	7.903-12	4.277-07
24	103	4.332+01	2.449-02	9.647-15	5.167-10	25	102	4.345+01	6.596-02	1.867-14	1.003-09
24	106	4.330+01	1.754-01	6.903-14	3.695-09	25	103	4.344+01	1.536-01	6.085-14	3.269-09
24	115	4.207+01	7.002+01	1.858-11	9.667-07	25	106	4.342+01	9.648-02	3.818-14	2.049-09
24	116	4.206+01	1.438+01	3.813-12	1.983-07	25	115	4.219+01	6.764-00	1.805-12	9.416-08
24	117	4.203+01	3.578+01	1.327-11	6.895-07	25	116	4.217+01	1.278+02	3.408-11	1.777-06
24	118	4.190+01	1.246+01	1.967-12	1.019-07	25	117	4.215+01	2.174+01	8.106-12	4.224-07
24	124	4.147+01	1.154-00	4.163-13	2.135-08	25	118	4.201+01	6.315+01	1.002-11	5.207-07
24	129	4.035+01	2.274-01	3.330-14	1.661-09	25	124	4.158+01	2.941-00	1.067-12	5.486-08
24	130	4.022+01	2.651-01	6.431-14	3.198-09	25	129	4.045+01	2.126+01	3.129-12	1.565-07
24	131	4.015+01	4.149-02	6.015-15	2.985-10	25	130	4.033+01	2.474-00	6.033-13	3.008-08
24	136	3.739+01	1.975-00	4.140-13	1.913-08	25	131	4.025+01	1.970+01	2.871-12	1.429-07
24	137	3.738+01	1.259+01	3.694-12	1.707-07	25	136	3.748+01	9.329-01	1.964-13	9.102-09
24	139	3.736+01	2.573-00	7.540-13	3.483-08	25	137	3.747+01	1.279-00	3.769-13	1.746-08

Table 3. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic dipole (M1) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
25	139	3.745+01	4.165-00	1.226-12	5.678-08	27	32	1.752+02	1.251+01	9.601-11	1.248-05
25	143	3.043+01	2.109+01	1.757-12	6.608-08	27	33	1.706+02	2.384-00	1.040-11	1.315-06
25	144	3.039+01	2.270-02	3.143-15	1.181-10	27	38	8.267+01	2.045-00	3.492-12	2.141-07
25	145	3.037+01	1.192+01	9.889-13	3.713-08	27	39	8.232+01	5.940-01	6.034-13	3.685-08
25	150	2.956+01	4.382-01	5.742-14	2.099-09	27	41	7.623+01	1.506+01	4.373-12	2.473-07
25	151	2.956+01	4.495-01	8.245-14	3.013-09	27	42	7.607+01	2.655-00	2.304-12	1.300-07
25	153	2.955+01	1.817-00	3.332-13	1.217-08	27	51	6.916+01	4.690+02	1.121-10	5.752-06
26	32	1.582+02	3.515+01	9.425-11	2.581-05	27	52	6.899+01	2.366+02	1.688-10	8.640-06
26	38	7.868+01	1.121-02	7.434-15	1.012-09	27	54	6.872+01	1.301+01	1.535-11	7.825-07
26	53	6.600+01	2.899-00	2.434-12	2.781-07	27	57	6.843+01	2.314+01	2.707-11	1.374-06
26	54	6.594+01	6.194-00	2.884-12	3.292-07	27	59	6.730+01	2.283-01	1.551-13	7.741-09
26	55	6.589+01	2.745-03	1.787-15	2.038-10	27	68	6.421+01	2.243-00	2.311-12	1.101-07
26	57	6.568+01	1.093-01	5.047-14	5.738-09	27	69	6.412+01	2.796+02	2.873-10	1.367-05
26	58	6.554+01	4.677-02	3.012-14	3.417-09	27	71	6.329+01	1.022+02	6.134-11	2.880-06
26	68	6.178+01	1.009+02	4.124-11	4.410-06	27	76	4.804+01	3.048-01	1.758-13	6.264-09
26	69	6.170+01	1.815+01	7.398-12	7.901-07	27	77	4.798+01	3.903-02	1.347-14	4.795-10
26	70	6.160+01	2.094+02	1.191-10	1.270-05	27	84	4.579+01	7.112-00	7.453-13	2.532-08
26	76	4.667+01	1.035-02	2.414-15	1.950-10	27	85	4.577+01	2.048-00	6.432-13	2.184-08
26	88	4.419+01	7.339-01	2.763-13	2.113-08	27	86	4.550+01	1.984+02	2.053-11	6.928-07
26	89	4.418+01	3.213-00	6.714-13	5.134-08	27	87	4.546+01	1.063+02	3.295-11	1.111-06
26	90	4.417+01	2.346-01	6.863-14	5.247-09	27	89	4.540+01	1.079+01	5.558-12	1.872-07
26	91	4.412+01	2.670-01	5.568-14	4.252-09	27	91	4.535+01	6.445-00	3.312-12	1.114-07
26	92	4.410+01	6.080-02	1.772-14	1.353-09	27	93	4.507+01	4.935-00	1.503-12	5.025-08
26	102	4.353+01	1.416-03	2.874-16	2.165-11	27	102	4.473+01	8.488-01	4.243-13	1.408-08
26	103	4.353+01	4.916-02	1.397-14	1.052-09	27	115	4.340+01	5.577-00	2.624-12	8.447-08
26	106	4.351+01	2.726-03	7.736-16	5.826-11	27	116	4.338+01	1.176+02	5.528-11	1.779-06
26	107	4.350+01	1.369-01	4.995-14	3.761-09	27	118	4.320+01	7.571+01	2.119-11	6.790-07
26	108	4.349+01	5.165-03	1.883-15	1.418-10	27	128	4.158+01	1.834+01	1.585-12	4.888-08
26	115	4.227+01	9.172+01	1.755-11	1.284-06	27	129	4.156+01	6.530-00	1.691-12	5.213-08
26	116	4.226+01	1.757+01	3.359-12	2.457-07	27	130	4.143+01	4.241-00	1.819-12	5.591-08
26	117	4.223+01	2.095+02	5.601-11	4.094-06	27	131	4.135+01	3.652-00	9.360-13	2.871-08
26	124	4.166+01	1.081-02	2.811-15	2.027-10	27	136	3.842+01	1.838-00	6.781-13	1.933-08
26	125	4.165+01	3.957-01	1.324-13	9.543-09	27	142	3.106+01	1.301+01	6.269-13	1.444-08
26	126	4.165+01	3.060-00	1.023-12	7.377-08	27	143	3.105+01	3.019-00	4.364-13	1.005-08
26	130	4.040+01	1.167-00	2.040-13	1.426-08	27	144	3.101+01	3.775-00	9.072-13	2.087-08
26	136	3.754+01	2.411-01	3.639-14	2.364-09	27	145	3.099+01	4.467-00	6.432-13	1.479-08
26	137	3.754+01	2.191-02	4.629-15	3.008-10	27	150	3.015+01	8.570-01	1.946-13	4.353-09
26	138	3.753+01	1.886+01	5.122-12	3.327-07	28	29	1.873+03	2.760-02	4.841-12	6.728-06
26	139	3.752+01	2.305-00	4.864-13	3.159-08	28	34	1.597+02	3.692-01	1.411-12	1.671-07
26	144	3.044+01	3.549-01	3.521-14	1.855-09	28	35	1.594+02	1.088-02	6.905-14	8.163-09
26	150	2.960+01	1.998-01	1.875-14	9.609-10	28	37	1.491+02	5.042-02	2.800-13	3.097-08
26	151	2.960+01	1.708-00	2.244-13	1.150-08	28	40	9.720+01	2.513-00	3.559-12	2.566-07
26	152	2.960+01	7.952-00	1.343-12	6.880-08	28	43	9.653+01	2.850-01	6.635-13	4.751-08
26	153	2.959+01	6.007-00	7.887-13	4.040-08	28	45	9.572+01	2.678+01	3.678-11	2.612-06
27	30	1.824+02	1.941+02	3.224-10	4.362-05	28	46	9.529+01	1.370-00	3.108-12	2.197-07
27	31	1.811+02	7.690+01	3.783-10	5.084-05	28	47	9.250+01	1.794+01	7.673-12	5.265-07

Table 3. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic dipole (M1) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
28	48	8.802+01	2.421+01	2.812-11	1.836-06	30	31	2.745+04	7.730-01	2.620-07	1.778-00
28	49	8.729+01	3.092+01	3.532-11	2.287-06	30	33	2.635+03	1.053+02	3.287-07	2.142-01
28	50	8.715+01	1.729-01	3.282-13	2.122-08	30	39	1.501+02	3.199+01	3.239-10	1.202-05
28	56	8.515+01	3.228-00	1.170-12	7.388-08	30	42	1.305+02	1.125-01	8.624-13	2.784-08
28	60	8.100+01	4.851-03	4.772-15	2.867-10	30	52	1.110+02	1.047-00	5.801-12	1.592-07
28	63	8.093+01	2.081-02	3.406-14	2.045-09	30	59	1.067+02	6.884-02	3.524-13	9.294-09
28	65	8.072+01	1.377-02	2.241-14	1.342-09	30	71	9.693+01	1.630-00	6.888-12	1.651-07
28	75	7.461+01	3.727-02	5.184-14	2.869-09	30	77	6.511+01	7.131-00	1.360-11	2.190-07
28	78	5.408+01	1.833-00	8.036-13	3.224-08	30	85	6.111+01	3.762-00	6.318-12	9.547-08
28	79	5.397+01	1.656-02	1.205-14	4.825-10	30	87	6.056+01	1.720-00	2.836-12	4.248-08
28	81	5.384+01	1.190+01	5.173-12	2.066-07	30	93	5.987+01	1.062-02	1.712-14	2.535-10
28	82	5.377+01	4.755-02	3.435-14	1.370-09	30	118	5.662+01	1.289-02	1.859-14	2.602-10
28	83	5.325+01	2.193-00	3.108-13	1.228-08	30	129	5.383+01	1.884+02	2.455-10	3.268-06
28	94	5.130+01	8.733-02	3.446-14	1.311-09	30	131	5.347+01	1.800+03	2.315-09	3.060-05
28	95	5.128+01	1.520-02	9.988-15	3.799-10	30	143	3.742+01	1.503+02	9.466-11	8.760-07
28	99	5.121+01	6.176-03	4.047-15	1.538-10	30	145	3.734+01	1.235+03	7.741-10	7.147-06
28	110	5.117+01	6.113-00	2.400-12	9.108-08	31	32	5.363+03	7.786+01	5.596-07	2.226-00
28	111	5.108+01	5.509-01	2.154-13	8.163-09	31	33	2.915+03	5.244+01	6.679-08	1.444-01
28	112	5.102+01	1.620-01	1.054-13	3.987-09	31	38	1.521+02	3.015+01	1.742-10	1.966-05
28	113	5.076+01	1.807-00	2.327-13	8.762-09	31	39	1.509+02	8.441-00	2.881-11	3.225-06
28	114	4.958+01	1.045+02	3.849-11	1.416-06	31	41	1.316+02	6.508+01	5.634-11	5.501-06
28	119	4.917+01	1.423+02	1.720-11	6.272-07	31	42	1.312+02	9.252-00	2.386-11	2.322-06
28	123	4.867+01	3.027-02	1.792-14	6.470-10	31	51	1.119+02	3.054-00	1.910-12	1.585-07
28	132	4.429+01	2.103-01	6.184-14	2.032-09	31	52	1.114+02	1.070-02	1.992-14	1.646-09
28	133	4.428+01	1.189-00	5.826-13	1.914-08	31	54	1.107+02	3.935-00	1.205-11	9.898-07
28	135	4.399+01	4.650-01	2.248-13	7.335-09	31	57	1.100+02	7.107-03	2.148-14	1.752-09
28	140	3.467+01	1.156+02	2.084-11	5.359-07	31	59	1.071+02	4.433-02	7.623-14	6.056-09
28	141	3.457+01	1.814+02	1.083-11	2.778-07	31	68	9.946+01	8.517-02	2.105-13	1.553-08
28	146	3.330+01	5.439-01	9.041-14	2.233-09	31	69	9.926+01	2.106-00	5.186-12	3.819-07
28	147	3.329+01	1.650-00	4.571-13	1.129-08	31	71	9.727+01	1.367-00	1.939-12	1.399-07
28	149	3.321+01	7.716-01	2.127-13	5.240-09	31	76	6.538+01	6.286-01	6.715-13	3.257-08
29	34	1.745+02	5.035-02	6.899-13	2.977-08	31	77	6.527+01	3.694-00	2.359-12	1.142-07
29	40	1.025+02	1.570+01	7.423-11	1.882-06	31	84	6.129+01	5.906-00	1.109-12	5.040-08
29	45	1.009+02	2.625-00	1.201-11	2.996-07	31	85	6.124+01	3.352-00	1.885-12	8.562-08
29	48	9.236+01	1.918-02	7.358-14	1.680-09	31	86	6.076+01	1.585-00	2.924-13	1.318-08
29	49	9.156+01	2.469+01	9.309-11	2.108-06	31	87	6.069+01	5.822-01	3.215-13	1.448-08
29	60	8.466+01	1.257-03	4.053-15	8.484-11	31	89	6.059+01	4.950-00	4.541-12	2.041-07
29	78	5.569+01	5.889-00	8.213-12	1.131-07	31	91	6.049+01	2.614-01	2.391-13	1.073-08
29	81	5.543+01	2.617-02	3.617-14	4.958-10	31	93	6.000+01	9.276-02	5.006-14	2.228-09
29	94	5.274+01	2.716-02	3.398-14	4.432-10	31	102	5.939+01	9.071-04	7.996-16	3.523-11
29	110	5.260+01	1.707-03	2.125-15	2.764-11	31	115	5.706+01	9.490-02	7.722-14	3.269-09
29	111	5.251+01	5.834-01	7.234-13	9.392-09	31	116	5.704+01	7.729-00	6.283-12	2.658-07
29	114	5.092+01	5.644+01	6.582-11	8.289-07	31	118	5.674+01	6.468-01	3.121-13	1.314-08
29	132	4.536+01	1.218-00	1.127-12	1.264-08	31	128	5.397+01	2.925+02	4.257-11	1.704-06
29	140	3.533+01	5.649+01	3.171-11	2.770-07	31	129	5.393+01	6.338+01	2.764-11	1.106-06
29	146	3.390+01	1.351-00	6.983-13	5.854-09	31	130	5.372+01	2.892+03	2.085-09	8.307-05

Table 3. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic dipole (M1) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
31	131	5.357+01	8.509+02	3.661-10	1.455-05	32	145	3.765+01	5.288+02	6.743-11	3.139-06
31	136	4.877+01	7.516-01	4.467-13	1.616-08	32	150	3.642+01	9.701-01	1.929-13	8.683-09
31	142	3.748+01	1.751+02	1.229-11	3.417-07	32	151	3.641+01	3.155-00	8.782-13	3.954-08
31	143	3.747+01	7.122+01	1.499-11	4.168-07	32	153	3.640+01	1.329-00	3.695-13	1.663-08
31	144	3.742+01	2.022+03	7.074-10	1.964-05	33	38	1.604+02	6.734-00	4.331-11	5.155-06
31	145	3.739+01	5.611+02	1.176-10	3.261-06	33	39	1.591+02	2.122-00	8.055-12	9.508-07
31	150	3.617+01	4.973-01	1.626-13	4.361-09	33	41	1.378+02	7.511-02	7.131-14	7.292-09
32	33	6.384+03	9.086-00	3.331-08	2.629-01	33	42	1.373+02	1.174-02	3.320-14	3.382-09
32	38	1.565+02	2.998-02	1.101-13	2.131-08	33	51	1.163+02	5.507-00	3.725-12	3.215-07
32	39	1.552+02	1.523-00	3.303-12	6.339-07	33	52	1.159+02	9.060-02	1.823-13	1.567-08
32	42	1.344+02	1.297+02	2.108-10	3.504-05	33	54	1.151+02	1.084-00	3.589-12	3.064-07
32	52	1.138+02	7.757-00	9.036-12	1.271-06	33	57	1.143+02	1.975-01	6.445-13	5.464-08
32	54	1.131+02	2.149-02	4.117-14	5.755-09	33	59	1.112+02	7.635-01	1.415-12	1.167-07
32	55	1.129+02	1.020-02	2.731-14	3.812-09	33	68	1.030+02	7.206-02	1.909-13	1.458-08
32	57	1.123+02	5.971-02	1.128-13	1.566-08	33	69	1.028+02	6.915-01	1.825-12	1.391-07
32	58	1.119+02	3.024-02	7.946-14	1.099-08	33	71	1.006+02	1.057-00	1.604-12	1.197-07
32	59	1.093+02	2.290-00	2.460-12	3.323-07	33	76	6.688+01	1.769-00	1.977-12	9.808-08
32	68	1.013+02	4.091-03	6.299-15	7.892-10	33	77	6.676+01	1.839-00	1.229-12	6.087-08
32	69	1.011+02	1.115-01	1.710-13	2.139-08	33	84	6.260+01	1.258+01	2.464-12	1.144-07
32	70	1.009+02	4.333-03	9.254-15	1.154-09	33	85	6.256+01	2.024-00	1.187-12	5.511-08
32	71	9.907+01	5.471-03	4.830-15	5.916-10	33	86	6.206+01	2.115+01	4.070-12	1.873-07
32	76	6.619+01	3.118-01	2.048-13	1.676-08	33	87	6.199+01	2.214-00	1.275-12	5.865-08
32	77	6.607+01	2.166-00	8.508-13	6.950-08	33	89	6.188+01	1.086-00	1.039-12	4.770-08
32	85	6.195+01	9.147-00	3.158-12	2.419-07	33	91	6.178+01	1.043-02	9.942-15	4.556-10
32	87	6.139+01	1.098+01	3.721-12	2.824-07	33	93	6.126+01	2.055-01	1.156-13	5.254-09
32	89	6.128+01	4.670-01	2.629-13	1.992-08	33	102	6.063+01	9.763-05	8.967-17	4.033-12
32	90	6.127+01	1.017-01	8.013-14	6.070-09	33	115	5.821+01	4.721-02	3.997-14	1.726-09
32	91	6.119+01	2.587-06	1.452-18	1.099-13	33	116	5.818+01	8.384-01	7.089-13	3.060-08
32	92	6.113+01	5.129-01	4.022-13	3.040-08	33	118	5.786+01	3.046-00	1.529-12	6.562-08
32	93	6.068+01	1.929-01	6.389-14	4.793-09	33	128	5.499+01	6.766+03	1.022-09	4.170-05
32	102	6.006+01	5.619-03	3.039-15	2.256-10	33	129	5.495+01	1.304+03	5.903-10	2.406-05
32	103	6.005+01	6.458-04	4.888-16	3.629-11	33	130	5.472+01	1.014+02	7.588-11	3.080-06
32	106	6.000+01	5.006-06	3.783-18	2.806-13	33	131	5.458+01	1.979+02	8.839-11	3.578-06
32	115	5.768+01	1.310-01	6.535-14	4.660-09	33	136	4.960+01	6.508-00	4.001-12	1.472-07
32	116	5.765+01	5.432-01	2.707-13	1.929-08	33	142	3.797+01	4.978+03	3.587-10	1.010-05
32	117	5.760+01	1.576-01	1.098-13	7.818-09	33	143	3.796+01	9.659+02	2.087-10	5.877-06
32	118	5.734+01	7.308-00	2.162-12	1.532-07	33	144	3.791+01	5.267+01	1.891-11	5.318-07
32	124	5.654+01	6.846-05	4.594-17	3.212-12	33	145	3.787+01	2.158+02	4.639-11	1.303-06
32	129	5.448+01	5.423+03	1.448-09	9.752-05	33	150	3.662+01	4.021-00	1.348-12	3.661-08
32	130	5.426+01	2.244+02	9.904-11	6.644-06	34	35	9.025+04	3.283-02	6.681-08	4.473-00
32	131	5.411+01	6.160+02	1.623-10	1.086-05	34	37	2.251+03	3.995-00	5.059-09	8.450-03
32	136	4.922+01	1.477-00	5.365-13	3.265-08	34	40	2.485+02	1.940-00	1.796-11	3.310-06
32	137	4.921+01	5.153-00	2.620-12	1.594-07	34	43	2.441+02	2.768+01	4.121-10	7.463-05
32	139	4.918+01	1.969-00	9.996-13	6.078-08	34	45	2.390+02	8.399-00	7.193-11	1.276-05
32	143	3.774+01	3.925+03	5.028-10	2.346-05	34	46	2.363+02	1.779-00	2.483-11	4.353-06
32	144	3.768+01	2.602+02	5.541-11	2.581-06	34	47	2.199+02	9.018-00	2.180-11	3.556-06

Table 3. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic dipole (M1) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
34	48	1.962+02	2.418-00	1.395-11	2.030-06	35	72	1.407+02	1.233+01	5.121-11	8.905-06
34	49	1.926+02	6.455-00	3.589-11	5.128-06	35	74	1.403+02	7.861+01	3.247-10	5.632-05
34	50	1.919+02	2.719-00	2.502-11	3.562-06	35	75	1.403+02	1.061+02	3.131-10	5.429-05
34	56	1.824+02	7.399-00	1.231-11	1.666-06	35	78	8.185+01	1.855-01	1.118-13	1.131-08
34	60	1.644+02	1.666-01	6.753-13	8.237-08	35	79	8.159+01	1.215-01	1.213-13	1.223-08
34	63	1.641+02	1.077-01	7.245-13	8.820-08	35	80	8.141+01	5.491-01	7.640-13	7.690-08
34	65	1.633+02	1.742-02	1.160-13	1.405-08	35	81	8.130+01	3.087-01	1.835-13	1.845-08
34	75	1.401+02	1.785+02	8.747-10	9.087-05	35	82	8.115+01	3.755-00	3.707-12	3.719-07
34	78	8.178+01	3.950-01	3.961-13	2.403-08	35	94	7.565+01	1.062+01	5.468-12	5.114-07
34	79	8.152+01	6.364-00	1.057-11	6.390-07	35	95	7.560+01	4.465-00	3.826-12	3.576-07
34	81	8.123+01	1.586-00	1.569-12	9.453-08	35	98	7.550+01	8.632-01	1.033-12	9.640-08
34	82	8.108+01	7.878-01	1.294-12	7.782-08	35	99	7.546+01	7.241-00	6.182-12	5.767-07
34	83	7.990+01	1.587-00	5.062-13	3.000-08	35	100	7.546+01	4.470-00	5.341-12	4.983-07
34	94	7.559+01	6.252-03	5.355-15	3.003-10	35	110	7.536+01	5.952-00	3.041-12	2.833-07
34	95	7.553+01	1.618-04	2.307-16	1.293-11	35	111	7.516+01	3.348-01	1.701-13	1.581-08
34	99	7.540+01	1.880-01	2.670-13	1.493-08	35	112	7.504+01	4.701-03	3.969-15	3.683-10
34	110	7.530+01	1.712-01	1.455-13	8.127-09	35	114	7.196+01	7.709-02	3.591-14	3.195-09
34	111	7.510+01	2.318-00	1.960-12	1.092-07	35	120	7.012+01	3.596-00	3.711-12	3.217-07
34	112	7.498+01	2.456-00	3.451-12	1.919-07	35	121	7.010+01	1.968+01	2.030-11	1.759-06
34	113	7.443+01	1.542-00	4.269-13	2.357-08	35	123	7.008+01	2.283+01	1.681-11	1.456-06
34	114	7.190+01	1.416-02	1.097-14	5.853-10	35	132	6.133+01	2.041+01	6.905-12	5.236-07
34	119	7.105+01	9.439-03	2.381-15	1.255-10	35	133	6.131+01	1.061+02	5.981-11	4.534-06
34	123	7.002+01	4.073+01	4.990-11	2.592-06	35	134	6.128+01	4.730+01	3.727-11	2.824-06
34	132	6.129+01	5.022+01	2.828-11	1.286-06	35	135	6.075+01	1.040-02	5.754-15	4.322-10
34	133	6.127+01	2.455+01	2.303-11	1.047-06	35	140	4.432+01	4.458-02	7.875-15	4.315-10
34	135	6.071+01	1.806+01	1.663-11	7.490-07	35	146	4.209+01	1.383+01	2.204-12	1.147-07
34	140	4.429+01	6.841-02	2.012-14	6.612-10	35	147	4.208+01	1.125+02	2.988-11	1.555-06
34	141	4.412+01	5.466-04	5.318-17	1.740-12	35	148	4.208+01	3.557+01	1.322-11	6.877-07
34	146	4.207+01	5.361+01	1.422-11	4.439-07	35	149	4.196+01	6.433-01	1.698-13	8.806-09
34	147	4.207+01	1.978+01	8.746-12	2.729-07	35	154	4.149+01	1.072-00	3.873-13	1.987-08
34	149	4.194+01	9.712-00	4.267-12	1.328-07	36	37	2.427+03	2.835-00	1.788-09	7.513-03
35	36	4.738+04	1.681-01	7.919-08	4.639-00	36	43	2.460+02	3.906-01	2.532-12	1.078-06
35	37	2.309+03	7.884-01	6.302-10	1.799-03	36	44	2.428+02	3.856-03	3.408-14	1.432-08
35	40	2.492+02	5.827-01	3.254-12	1.002-06	36	46	2.381+02	5.531-04	3.359-15	1.385-09
35	43	2.448+02	4.090-02	3.673-13	1.112-07	36	50	1.931+02	9.592+01	3.830-10	1.280-04
35	44	2.416+02	1.165+01	1.427-10	4.262-05	36	61	1.653+02	1.919-01	1.010-12	2.890-07
35	45	2.397+02	1.053-00	5.440-12	1.612-06	36	63	1.650+02	7.497+01	2.185-10	6.240-05
35	46	2.370+02	1.043+01	8.776-11	2.571-05	36	64	1.642+02	5.775+01	2.335-10	6.639-05
35	48	1.966+02	5.409+01	1.881-10	4.572-05	36	65	1.641+02	2.731+01	7.877-11	2.238-05
35	49	1.930+02	2.833-02	9.493-14	2.265-08	36	66	1.641+02	1.116+01	4.504-11	1.279-05
35	50	1.923+02	1.225-02	6.792-14	1.615-08	36	67	1.639+02	3.929+01	2.034-10	5.770-05
35	60	1.647+02	4.133+01	1.009-10	2.054-05	36	72	1.411+02	2.531-00	7.552-12	1.844-06
35	63	1.644+02	8.202-00	3.324-11	6.756-06	36	73	1.409+02	2.189+01	8.377-11	2.043-05
35	64	1.637+02	4.249-00	2.389-11	4.835-06	36	74	1.407+02	1.125+02	3.338-10	8.130-05
35	65	1.636+02	2.318+01	9.297-11	1.880-05	36	75	1.407+02	5.867-00	1.243-11	3.028-06
35	66	1.635+02	1.340+01	7.515-11	1.519-05	36	79	8.173+01	3.065-00	2.192-12	3.101-07

Table 3. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic dipole (M1) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
36	80	8.155+01	1.102-01	1.098-13	1.550-08	37	99	7.801+01	2.914-00	2.659-12	2.565-07
36	82	8.129+01	8.097-03	5.730-15	8.062-10	37	100	7.801+01	2.157-00	2.754-12	2.656-07
36	95	7.572+01	1.903+01	1.168-11	1.531-06	37	110	7.791+01	3.882-00	2.120-12	2.041-07
36	97	7.570+01	1.016-01	1.122-13	1.471-08	37	111	7.769+01	1.972-00	1.071-12	1.028-07
36	98	7.562+01	2.352+01	2.016-11	2.639-06	37	112	7.757+01	1.526-00	1.376-12	1.320-07
36	99	7.558+01	8.239-00	5.040-12	6.594-07	37	114	7.428+01	2.559-03	1.270-15	1.166-10
36	100	7.558+01	1.629-00	1.395-12	1.825-07	37	120	7.232+01	3.174-01	3.484-13	3.115-08
36	101	7.556+01	1.163+01	1.280-11	1.674-06	37	121	7.229+01	1.252+01	1.373-11	1.227-06
36	112	7.516+01	1.588+01	9.607-12	1.250-06	37	123	7.227+01	2.320-00	1.816-12	1.623-07
36	120	7.022+01	1.043-00	7.713-13	9.375-08	37	132	6.301+01	1.594+02	5.691-11	4.433-06
36	121	7.020+01	2.044+01	1.510-11	1.835-06	37	133	6.299+01	3.616+01	2.151-11	1.675-06
36	122	7.020+01	4.341-00	4.124-12	5.010-07	37	134	6.295+01	2.359-00	1.962-12	1.527-07
36	123	7.018+01	2.820-00	1.487-12	1.807-07	37	135	6.239+01	1.124+02	6.558-11	5.059-06
36	133	6.139+01	6.193+01	2.500-11	2.656-06	37	140	4.518+01	5.274-03	9.685-16	5.410-11
36	134	6.136+01	1.921+02	1.084-10	1.152-05	37	146	4.287+01	1.230+02	2.034-11	1.078-06
36	135	6.083+01	1.115+02	4.417-11	4.651-06	37	147	4.287+01	2.799+01	7.709-12	4.086-07
36	147	4.212+01	4.530+01	8.608-12	6.276-07	37	148	4.286+01	5.280-01	2.036-13	1.079-08
36	148	4.211+01	2.041+02	5.426-11	3.955-06	37	149	4.273+01	1.176+02	3.220-11	1.701-06
36	149	4.199+01	1.008+02	1.904-11	1.384-06	37	154	4.225+01	1.828-00	6.850-13	3.578-08
36	154	4.153+01	2.088-01	5.399-14	3.881-09	38	39	1.934+04	1.156-00	3.888-08	9.295-01
36	155	4.153+01	2.816-00	9.361-13	6.729-08	38	42	9.537+02	1.628+04	1.332-06	1.571-00
36	157	4.153+01	1.332-02	4.428-15	3.183-10	38	52	4.170+02	1.480+01	2.315-10	1.193-04
37	40	2.793+02	1.971-01	1.383-12	4.776-07	38	54	4.071+02	3.117-01	7.745-12	3.898-06
37	43	2.738+02	1.060-02	1.192-13	4.034-08	38	55	4.054+02	4.729-02	1.631-12	8.176-07
37	44	2.698+02	8.680-00	1.326-10	4.423-05	38	57	3.972+02	7.418-02	1.755-12	8.618-07
37	45	2.674+02	1.124-00	7.228-12	2.390-06	38	58	3.924+02	2.808-01	9.077-12	4.404-06
37	46	2.641+02	4.284-00	4.479-11	1.462-05	38	59	3.621+02	4.997+01	5.893-10	2.638-04
37	48	2.149+02	2.331+01	9.682-11	2.572-05	38	68	2.875+02	6.877-02	8.522-13	3.029-07
37	49	2.106+02	1.279+01	5.105-11	1.329-05	38	69	2.859+02	1.577-00	1.932-11	6.827-06
37	50	2.098+02	8.592-00	5.670-11	1.471-05	38	70	2.838+02	3.168-01	5.355-12	1.879-06
37	60	1.774+02	3.186+01	9.016-11	1.977-05	38	71	2.699+02	1.460+01	9.567-11	3.193-05
37	63	1.770+02	8.123-00	3.816-11	8.350-06	38	76	1.147+02	1.873-00	3.694-12	5.238-07
37	64	1.762+02	2.648-00	1.725-11	3.757-06	38	77	1.143+02	9.305-00	1.094-11	1.547-06
37	65	1.760+02	1.340+01	6.227-11	1.355-05	38	85	1.025+02	1.569-01	1.484-13	1.881-08
37	66	1.759+02	8.746-00	5.682-11	1.236-05	38	87	1.010+02	6.945-02	6.374-14	7.960-09
37	72	1.498+02	4.317-00	2.033-11	3.765-06	38	89	1.007+02	1.072-02	1.631-14	2.031-09
37	74	1.494+02	7.285+01	3.411-10	6.298-05	38	90	1.007+02	4.019-03	8.553-15	1.065-09
37	75	1.493+02	1.167+01	3.902-11	7.204-06	38	91	1.005+02	4.331-04	6.552-16	8.138-11
37	78	8.486+01	1.522-02	9.856-15	1.034-09	38	92	1.003+02	9.593-03	2.026-14	2.512-09
37	79	8.458+01	1.011-02	1.085-14	1.134-09	38	93	9.910+01	4.003-00	3.536-12	4.333-07
37	80	8.439+01	1.690-00	2.527-12	2.636-07	38	102	9.746+01	2.539-05	3.615-17	4.356-12
37	81	8.427+01	2.971-01	1.898-13	1.978-08	38	103	9.744+01	1.106-05	2.203-17	2.654-12
37	82	8.411+01	3.790-01	4.020-13	4.180-08	38	106	9.731+01	3.881-05	7.713-17	9.279-12
37	94	7.821+01	2.431-00	1.337-12	1.293-07	38	115	9.134+01	7.566-03	9.463-15	1.069-09
37	95	7.816+01	9.944-01	9.106-13	8.799-08	38	116	9.127+01	1.848-02	2.308-14	2.604-09
37	98	7.805+01	5.653-01	7.228-13	6.975-08	38	117	9.115+01	8.147-03	1.421-14	1.601-09

Table 3. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic dipole (M1) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
38	118	9.050+01	2.076-00	1.529-12	1.711-07	39	150	4.757+01	2.293-04	1.297-16	4.576-12
38	124	8.853+01	4.193-05	6.897-17	7.549-12	40	43	1.388+04	5.143-01	2.475-08	2.549-01
38	129	8.357+01	1.748+01	1.098-11	1.135-06	40	45	6.286+03	3.795-00	2.248-08	1.049-01
38	130	8.305+01	4.240-01	4.385-13	4.502-08	40	46	4.842+03	2.403+01	1.408-07	5.057-01
38	131	8.271+01	3.284+01	2.021-11	2.067-06	40	47	1.914+03	1.522+03	2.787-07	3.959-01
38	136	7.180+01	2.015-03	1.557-15	1.382-10	40	48	9.323+02	2.296+03	2.991-07	2.069-01
38	137	7.179+01	6.419-03	6.943-15	6.162-10	40	49	8.564+02	2.561+03	2.815-07	1.789-01
38	139	7.171+01	4.985-04	5.380-16	4.770-11	40	50	8.431+02	3.075+02	5.462-08	3.416-02
38	143	4.973+01	2.161-00	4.806-13	2.955-08	40	56	6.865+02	1.610+04	3.792-07	1.931-01
38	144	4.963+01	1.196-01	4.416-14	2.710-09	40	60	4.860+02	5.540-02	1.962-12	7.073-07
38	145	4.958+01	3.679-00	8.133-13	4.985-08	40	63	4.834+02	3.601-05	2.102-15	7.537-10
38	150	4.746+01	5.897-03	1.991-15	1.168-10	40	65	4.761+02	5.876-03	3.327-13	1.175-07
38	151	4.746+01	3.575-03	1.689-15	9.913-11	40	75	3.209+02	1.919-03	4.938-14	1.176-08
38	153	4.743+01	5.871-05	2.772-17	1.626-12	40	78	1.219+02	7.946-00	1.770-11	1.601-06
39	41	1.031+03	1.813+04	9.622-07	7.356-01	40	79	1.213+02	1.270+01	4.673-11	4.205-06
39	42	1.003+03	3.101+03	4.678-07	3.481-01	40	81	1.207+02	1.680+02	3.669-10	3.285-05
39	51	4.328+02	3.610+01	3.379-10	1.085-04	40	82	1.203+02	1.530+02	5.537-10	4.943-05
39	52	4.262+02	1.022+01	2.784-10	8.801-05	40	83	1.178+02	6.194+01	4.292-11	3.750-06
39	54	4.159+02	4.253-01	1.838-11	5.669-06	40	94	1.086+02	6.601-01	1.168-12	9.412-08
39	57	4.056+02	1.654-00	6.799-11	2.046-05	40	95	1.085+02	1.117-03	3.287-15	2.646-10
39	59	3.690+02	2.433-00	4.966-11	1.359-05	40	99	1.082+02	1.179-02	3.452-14	2.772-09
39	68	2.919+02	7.439-01	1.583-11	3.428-06	40	110	1.081+02	1.023-00	1.790-12	1.434-07
39	69	2.901+02	8.382-00	1.763-10	3.795-05	40	111	1.076+02	9.921-01	1.723-12	1.376-07
39	71	2.737+02	1.763+01	1.981-10	4.022-05	40	112	1.074+02	9.498-01	2.737-12	2.180-07
39	76	1.154+02	4.603-00	1.531-11	1.311-06	40	113	1.062+02	8.740+01	4.931-11	3.886-06
39	77	1.150+02	6.297-02	1.249-13	1.066-08	40	114	1.012+02	1.545+01	2.372-11	1.780-06
39	84	1.032+02	8.399-00	4.471-12	3.424-07	40	119	9.950+01	1.407-00	6.959-13	5.136-08
39	85	1.031+02	8.612-01	1.372-12	1.049-07	40	123	9.750+01	1.070-02	2.541-14	1.838-09
39	86	1.017+02	3.744-01	1.936-13	1.461-08	40	132	8.136+01	2.415-00	2.397-12	1.447-07
39	87	1.015+02	3.042-01	4.702-13	3.541-08	40	133	8.133+01	8.350-02	1.380-13	8.325-09
39	89	1.012+02	1.324-01	3.391-13	2.547-08	40	135	8.034+01	4.959-02	7.998-14	4.767-09
39	91	1.010+02	1.983-01	5.053-13	3.785-08	40	140	5.390+01	1.412-00	6.149-13	2.459-08
39	93	9.961+01	3.740-01	5.563-13	4.111-08	40	141	5.365+01	3.139-00	4.515-13	1.797-08
39	102	9.795+01	2.197-04	5.267-16	3.827-11	40	146	5.065+01	1.227-01	4.719-14	1.773-09
39	115	9.178+01	8.079-03	1.700-14	1.158-09	40	147	5.064+01	9.309-04	5.964-16	2.240-11
39	116	9.170+01	5.421-01	1.139-12	7.749-08	40	149	5.045+01	8.405-03	5.345-15	2.001-10
39	118	9.093+01	1.507-00	1.868-12	1.260-07	41	42	3.770+04	2.130-01	1.361-07	1.269-00
39	128	8.402+01	6.560+01	2.314-11	1.442-06	41	52	7.268+02	1.035-01	2.459-11	4.419-06
39	129	8.394+01	2.559-00	2.702-12	1.683-07	41	59	5.748+02	4.506-00	6.696-10	9.517-05
39	130	8.341+01	1.091-02	1.896-14	1.173-09	41	71	3.728+02	2.070+01	1.294-09	1.193-04
39	131	8.307+01	6.276-00	6.492-12	4.000-07	41	77	1.295+02	4.129-01	3.114-12	9.969-08
39	136	7.206+01	1.716-05	2.227-17	1.190-12	41	85	1.145+02	4.461-01	2.632-12	7.455-08
39	142	4.987+01	6.191-00	7.694-13	2.847-08	41	87	1.126+02	4.219-04	2.408-15	6.706-11
39	143	4.986+01	1.006-01	3.750-14	1.387-09	41	93	1.103+02	1.973-00	1.079-11	2.942-07
39	144	4.976+01	1.786-02	1.105-14	4.079-10	41	118	9.972+01	2.030-00	9.078-12	2.238-07
39	145	4.970+01	5.554-01	2.057-13	7.584-09	41	129	9.138+01	8.424-00	3.164-11	7.149-07

Table 3. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic dipole (M1) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
41	131	9.035+01	2.680-00	9.841-12	2.198-07	43	74	3.286+02	1.347-01	3.053-12	1.240-06
41	143	5.239+01	8.918-01	1.101-12	1.426-08	43	75	3.285+02	1.243-02	2.012-13	8.172-08
41	145	5.222+01	1.697-01	2.081-13	2.688-09	43	78	1.230+02	1.325-00	1.802-12	2.741-07
42	51	7.612+02	1.053-00	3.048-11	1.721-05	43	79	1.224+02	7.839-01	1.760-12	2.664-07
42	52	7.411+02	1.117-00	9.201-11	5.058-05	43	80	1.220+02	2.491+02	7.782-10	1.174-04
42	54	7.103+02	6.202-01	7.819-11	4.120-05	43	81	1.217+02	2.918+01	3.890-11	5.855-06
42	57	6.808+02	5.264-01	6.096-11	3.079-05	43	82	1.214+02	1.568+02	3.465-10	5.200-05
42	59	5.837+02	3.877-00	1.980-10	8.575-05	43	94	1.095+02	3.394-00	3.660-12	4.955-07
42	68	4.116+02	6.691-03	2.833-13	8.649-08	43	95	1.094+02	2.896-02	5.194-14	7.024-09
42	69	4.082+02	2.618+01	1.090-09	3.301-04	43	98	1.092+02	6.258-04	1.565-15	2.113-10
42	71	3.765+02	4.256-00	9.043-11	2.525-05	43	99	1.091+02	1.342-02	2.395-14	3.230-09
42	76	1.304+02	1.459-00	6.195-12	5.992-07	43	100	1.091+02	3.682-02	9.196-14	1.240-08
42	77	1.299+02	2.985-03	7.556-15	7.282-10	43	110	1.089+02	7.150-00	7.626-12	1.027-06
42	84	1.151+02	1.010-01	6.683-14	5.704-09	43	111	1.085+02	1.648-01	1.744-13	2.339-08
42	85	1.149+02	3.541-01	7.007-13	5.972-08	43	112	1.082+02	5.405-03	9.491-15	1.270-09
42	86	1.132+02	6.125-02	3.923-14	3.295-09	43	114	1.019+02	9.827-00	9.183-12	1.157-06
42	87	1.130+02	5.997-02	1.148-13	9.617-09	43	120	9.827+01	1.094-02	2.218-14	2.695-09
42	89	1.126+02	1.570-02	4.975-14	4.156-09	43	121	9.823+01	1.506-02	3.049-14	3.703-09
42	91	1.123+02	7.428-02	2.340-13	1.949-08	43	123	9.819+01	2.019-01	2.918-13	3.543-08
42	93	1.106+02	1.109-00	2.033-12	1.668-07	43	132	8.184+01	2.269+01	1.367-11	1.383-06
42	102	1.086+02	2.640-04	7.772-16	6.258-11	43	133	8.181+01	1.284-01	1.288-13	1.302-08
42	115	1.010+02	6.079-04	1.550-15	1.161-10	43	134	8.174+01	1.789-01	2.509-13	2.536-08
42	116	1.009+02	5.754-01	1.464-12	1.097-07	43	135	8.081+01	3.286-01	3.217-13	3.214-08
42	118	9.999+01	5.569-01	8.347-13	6.191-08	43	140	5.411+01	9.909-01	2.610-13	1.746-08
42	128	9.170+01	8.010-02	3.366-14	2.290-09	43	146	5.083+01	5.399-01	1.255-13	7.886-09
42	129	9.160+01	6.209-00	7.810-12	5.307-07	43	147	5.082+01	6.736-02	2.609-14	1.639-09
42	130	9.097+01	2.226+01	4.604-11	3.107-06	43	148	5.081+01	6.365-01	3.449-13	2.167-08
42	131	9.057+01	3.338-01	4.104-13	2.757-08	43	149	5.063+01	2.655-02	1.020-14	6.389-10
42	136	7.764+01	9.150-05	1.378-16	7.938-12	43	154	4.996+01	1.918-05	1.005-17	6.207-13
42	142	5.248+01	4.022-01	5.537-14	2.155-09	44	46	1.243+04	6.627-03	1.096-10	2.358-03
42	143	5.246+01	5.896-01	2.433-13	9.469-09	44	50	9.434+02	1.393+04	1.327-06	2.167-00
42	144	5.236+01	2.766-00	1.895-12	7.360-08	44	61	5.177+02	8.773-04	4.532-14	4.061-08
42	145	5.229+01	8.440-03	3.460-15	1.342-10	44	63	5.147+02	1.035-01	2.936-12	2.616-06
42	150	4.994+01	1.107-04	6.902-17	2.557-12	44	64	5.076+02	1.210-03	4.673-14	4.106-08
43	44	1.852+04	1.509-00	1.086-07	2.486-00	44	65	5.065+02	2.927-01	8.039-12	7.047-06
43	45	1.149+04	4.504-00	5.348-08	7.598-01	44	66	5.058+02	2.910-04	1.116-14	9.770-09
43	46	7.437+03	9.510-00	7.886-08	7.251-01	44	67	5.042+02	4.183-04	2.050-14	1.789-08
43	48	9.994+02	1.542+04	1.385-06	1.711-00	44	72	3.367+02	3.749-04	6.372-15	3.714-09
43	49	9.127+02	1.187-00	8.895-11	1.004-04	44	73	3.357+02	1.776-03	3.857-14	2.241-08
43	50	8.977+02	4.776-00	5.770-10	6.404-04	44	74	3.346+02	5.436-03	9.124-14	5.284-08
43	60	5.037+02	4.134-01	9.434-12	5.875-06	44	75	3.345+02	1.211-01	1.451-12	8.400-07
43	63	5.008+02	6.328-03	2.379-13	1.473-07	44	79	1.232+02	4.826+02	7.845-10	1.673-04
43	64	4.940+02	5.102-03	2.614-13	1.597-07	44	80	1.228+02	5.744-00	1.298-11	2.760-06
43	65	4.930+02	1.311-02	4.778-13	2.912-07	44	82	1.222+02	1.522-01	2.433-13	5.146-08
43	66	4.923+02	6.236-03	3.172-13	1.931-07	44	95	1.100+02	1.352-00	1.753-12	3.339-07
43	72	3.307+02	9.910-03	2.275-13	9.301-08	44	97	1.100+02	1.058-01	2.468-13	4.699-08

Table 3. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic dipole (M1) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
44	98	1.098+02	6.087-02	1.101-13	2.093-08	45	140	5.437+01	6.904-01	3.060-13	1.234-08
44	99	1.097+02	2.950-01	3.805-13	7.228-08	45	141	5.411+01	1.485-00	2.173-13	8.721-09
44	100	1.097+02	8.008-02	1.446-13	2.746-08	45	146	5.106+01	1.352-01	5.284-14	2.001-09
44	101	1.097+02	9.020-02	2.092-13	3.972-08	45	147	5.105+01	7.223-03	4.703-15	1.781-10
44	112	1.089+02	3.466-01	4.399-13	8.289-08	45	149	5.086+01	4.653-02	3.007-14	1.135-09
44	120	9.879+01	8.199-04	1.200-15	2.051-10	46	48	1.154+03	4.339-00	5.203-10	7.426-04
44	121	9.875+01	2.463-01	3.600-13	6.155-08	46	49	1.040+03	7.356+03	7.162-07	9.212-01
44	122	9.875+01	4.391-02	8.253-14	1.411-08	46	50	1.021+03	4.531+03	7.080-07	8.936-01
44	123	9.871+01	1.123-02	1.171-14	2.001-09	46	60	5.402+02	2.751-03	7.223-14	4.824-08
44	133	8.217+01	1.230+01	8.891-12	1.265-06	46	63	5.370+02	9.696-03	4.191-13	2.782-07
44	134	8.210+01	4.048-01	4.091-13	5.814-08	46	64	5.292+02	9.184-04	5.398-14	3.532-08
44	135	8.116+01	1.495+01	1.054-11	1.481-06	46	65	5.280+02	6.710-02	2.804-12	1.830-06
44	147	5.096+01	1.206-00	3.353-13	2.958-08	46	66	5.272+02	4.895-03	2.856-13	1.862-07
44	148	5.095+01	1.668-01	6.490-14	5.724-09	46	72	3.461+02	8.755-03	2.201-13	9.418-08
44	149	5.077+01	8.692-01	2.399-13	2.109-08	46	74	3.438+02	1.130-01	2.803-12	1.192-06
44	154	5.010+01	2.207-04	8.304-17	7.201-12	46	75	3.437+02	1.741-01	3.083-12	1.310-06
44	155	5.010+01	2.803-03	1.356-15	1.176-10	46	78	1.251+02	8.749+01	1.231-10	1.902-05
44	157	5.009+01	1.676-05	8.107-18	7.029-13	46	79	1.244+02	1.362+02	3.163-10	4.866-05
45	46	2.108+04	1.602-01	1.780-08	2.784-01	46	80	1.240+02	2.868-00	9.258-12	1.420-06
45	47	2.753+03	2.468+02	9.346-08	1.909-01	46	81	1.238+02	1.125+02	1.550-10	2.372-05
45	48	1.095+03	8.301+02	1.491-07	1.211-01	46	82	1.234+02	3.007-00	6.866-12	1.048-06
45	49	9.914+02	5.760+03	8.489-07	6.243-01	46	94	1.111+02	7.413-02	8.235-14	1.131-08
45	50	9.737+02	7.208+02	1.708-07	1.233-01	46	95	1.110+02	7.883-01	1.456-12	1.999-07
45	56	7.707+02	5.727+03	1.700-07	9.718-02	46	98	1.108+02	3.374-03	8.696-15	1.191-09
45	60	5.268+02	1.407-01	5.852-12	2.287-06	46	99	1.107+02	3.154-02	5.796-14	7.934-09
45	63	5.236+02	1.098-03	7.523-14	2.922-08	46	100	1.107+02	4.789-02	1.232-13	1.687-08
45	65	5.151+02	1.172-02	7.770-13	2.969-07	46	110	1.105+02	9.353-01	1.028-12	1.404-07
45	75	3.382+02	1.680-04	4.801-15	1.205-09	46	111	1.101+02	1.256+01	1.369-11	1.863-06
45	78	1.243+02	3.355+02	7.771-10	7.166-05	46	112	1.098+02	2.685-00	4.856-12	6.593-07
45	79	1.237+02	3.278+01	1.254-10	1.150-05	46	114	1.033+02	5.229+01	5.023-11	6.418-06
45	81	1.231+02	2.408-03	5.466-15	4.989-10	46	120	9.959+01	7.026-04	1.463-15	1.801-10
45	82	1.227+02	1.815+01	6.826-11	6.213-06	46	121	9.954+01	1.469-02	3.055-14	3.760-09
45	83	1.200+02	1.857+01	1.336-11	1.190-06	46	123	9.950+01	5.520-03	8.194-15	1.008-09
45	94	1.106+02	1.812-01	3.319-13	2.722-08	46	132	8.275+01	8.681-01	5.348-13	5.471-08
45	95	1.104+02	5.403-02	1.646-13	1.349-08	46	133	8.272+01	3.929-00	4.030-12	4.121-07
45	99	1.101+02	2.176-03	6.597-15	5.390-10	46	134	8.265+01	4.497-04	6.447-16	6.588-11
45	110	1.099+02	1.376-00	2.492-12	2.033-07	46	135	8.169+01	3.876-00	3.878-12	3.917-07
45	111	1.095+02	8.133-02	1.462-13	1.188-08	46	140	5.451+01	6.022-00	1.609-12	1.085-07
45	112	1.093+02	3.410-01	1.017-12	8.243-08	46	146	5.118+01	5.772-03	1.360-15	8.606-11
45	113	1.081+02	3.429-00	2.002-12	1.605-07	46	147	5.117+01	2.884-05	1.132-17	7.163-13
45	114	1.028+02	3.435-00	5.447-12	4.155-07	46	148	5.116+01	2.594-03	1.425-15	9.013-11
45	119	1.011+02	5.283-01	2.698-13	2.023-08	46	149	5.098+01	3.295-01	1.284-13	8.092-09
45	123	9.904+01	9.667-02	2.369-13	1.740-08	46	154	5.030+01	4.689-04	2.490-16	1.549-11
45	132	8.243+01	4.527-00	4.611-12	2.820-07	47	48	1.817+03	4.441-01	6.594-10	2.963-04
45	133	8.239+01	2.836-01	4.810-13	2.940-08	47	49	1.550+03	1.806+03	1.950-06	7.472-01
45	135	8.138+01	1.198-00	1.982-12	1.197-07	47	60	6.514+02	3.199-02	6.105-12	9.832-07

Table 3. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic dipole (M1) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
47	78	1.302+02	8.031+01	6.122-10	1.971-05	49	79	1.414+02	1.603-01	8.000-13	8.389-08
47	81	1.288+02	2.941+01	2.194-10	6.989-06	49	81	1.405+02	7.562-01	2.237-12	2.332-07
47	94	1.152+02	1.072-02	6.397-14	1.822-09	49	82	1.400+02	3.381-02	1.656-13	1.720-08
47	110	1.145+02	1.477-01	8.709-13	2.466-08	49	83	1.365+02	1.732+02	1.614-10	1.635-05
47	111	1.140+02	3.490-00	2.042-11	5.757-07	49	94	1.244+02	1.426-00	3.310-12	3.055-07
47	114	1.068+02	3.331+01	1.710-10	4.517-06	49	95	1.243+02	6.664-02	2.572-13	2.371-08
47	132	8.497+01	1.281-00	4.159-12	8.740-08	49	99	1.239+02	1.142-02	4.380-14	4.026-09
47	140	5.547+01	2.683-00	3.713-12	5.092-08	49	110	1.237+02	6.211+01	1.424-10	1.306-05
47	146	5.202+01	8.376-03	1.020-14	1.311-10	49	111	1.231+02	3.138-00	7.130-12	6.511-07
48	49	1.052+04	1.698-00	2.818-08	2.200-01	49	112	1.228+02	3.368-00	1.269-11	1.155-06
48	50	8.819+03	1.214+01	2.360-07	1.544-00	49	113	1.213+02	3.499+02	2.573-10	2.316-05
48	56	2.604+03	3.220-01	1.091-10	2.108-04	49	114	1.147+02	3.991+01	7.877-11	6.704-06
48	60	1.015+03	1.293-03	1.998-13	1.505-07	49	119	1.126+02	5.677-02	3.595-14	3.002-09
48	63	1.004+03	4.223-02	1.063-11	7.919-06	49	123	1.100+02	3.645-01	1.103-12	9.000-08
48	65	9.729+02	1.415-02	3.347-12	2.415-06	49	132	8.990+01	6.683-01	8.098-13	5.401-08
48	75	4.894+02	1.155-01	6.911-12	2.509-06	49	133	8.986+01	2.725-02	5.498-14	3.665-09
48	78	1.402+02	3.368-00	9.930-12	1.033-06	49	135	8.866+01	2.911-00	5.718-12	3.760-07
48	79	1.395+02	2.302-01	1.119-12	1.158-07	49	140	5.752+01	4.222-00	2.094-12	8.937-08
48	81	1.386+02	2.058-02	5.929-14	6.097-09	49	141	5.723+01	5.564-00	9.108-13	3.867-08
48	82	1.382+02	1.337-02	6.381-14	6.541-09	49	146	5.383+01	8.368-02	3.635-14	1.452-09
48	83	1.348+02	2.159-01	1.960-13	1.960-08	49	147	5.382+01	7.586-03	5.491-15	2.192-10
48	94	1.230+02	2.720-01	6.165-13	5.623-08	49	149	5.361+01	1.725-01	1.239-13	4.926-09
48	95	1.228+02	2.096-00	7.902-12	7.200-07	50	60	1.148+03	8.061-03	9.548-13	1.355-06
48	99	1.225+02	1.875-01	7.027-13	6.384-08	50	63	1.133+03	1.489-03	2.864-13	4.011-07
48	110	1.222+02	2.896-01	6.485-13	5.879-08	50	64	1.099+03	5.974-02	1.514-11	2.057-05
48	111	1.217+02	1.344+02	2.983-10	2.692-05	50	65	1.094+03	5.649-02	1.013-11	1.369-05
48	112	1.214+02	3.115+02	1.146-09	1.032-04	50	66	1.090+03	4.585-03	1.144-12	1.542-06
48	113	1.199+02	1.306-00	9.384-13	8.348-08	50	72	5.236+02	6.425-02	3.697-12	2.393-06
48	114	1.135+02	9.987-01	1.929-12	1.624-07	50	74	5.185+02	8.742-05	4.932-15	3.162-09
48	119	1.114+02	4.662-02	2.890-14	2.388-09	50	75	5.182+02	1.580-01	6.360-12	4.075-06
48	123	1.089+02	9.461-01	2.803-12	2.264-07	50	78	1.425+02	9.585-01	1.751-12	3.085-07
48	132	8.914+01	1.096-01	1.305-13	8.632-09	50	79	1.417+02	3.088-03	9.296-15	1.629-09
48	133	8.910+01	7.506-00	1.489-11	9.841-07	50	80	1.412+02	8.627-01	3.609-12	6.299-07
48	135	8.792+01	5.856-00	1.131-11	7.375-07	50	81	1.408+02	7.749-03	1.383-14	2.408-09
48	140	5.721+01	5.540-01	2.719-13	1.154-08	50	82	1.404+02	6.667-02	1.970-13	3.419-08
48	141	5.692+01	1.230-03	1.991-16	8.407-12	50	94	1.247+02	1.248+01	1.746-11	2.692-06
48	146	5.356+01	2.401-03	1.032-15	4.101-11	50	95	1.246+02	7.323-02	1.703-13	2.623-08
48	147	5.355+01	8.557-01	6.131-13	2.435-08	50	98	1.243+02	3.156-01	1.023-12	1.573-07
48	149	5.334+01	2.142-01	1.522-13	6.023-09	50	99	1.242+02	1.626-07	3.760-19	5.773-14
49	50	5.449+04	2.857-02	2.120-08	8.568-01	50	100	1.242+02	8.982-04	2.907-15	4.463-10
49	56	3.461+03	2.413+02	1.444-07	3.708-01	50	110	1.239+02	4.017+02	5.550-10	8.503-05
49	60	1.124+03	9.612-03	1.820-12	1.517-06	50	111	1.234+02	1.491+01	2.042-11	3.115-06
49	63	1.110+03	2.978-03	9.163-13	7.543-07	50	112	1.231+02	6.934-00	1.575-11	2.396-06
49	65	1.072+03	9.852-03	2.829-12	2.250-06	50	114	1.150+02	1.676+01	1.994-11	2.834-06
49	75	5.133+02	2.554-03	1.681-13	6.402-08	50	120	1.103+02	3.306-02	8.451-14	1.153-08
49	78	1.421+02	4.428-00	1.341-11	1.414-06	50	121	1.103+02	1.048-00	2.676-12	3.649-07

Table 3. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic dipole (M1) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
50	123	1.102+02	8.029-02	1.463-13	1.994-08	52	136	8.673+01	1.762-02	3.311-14	2.130-09
50	132	9.005+01	1.023-01	7.462-14	8.307-09	52	142	5.648+01	1.127-00	1.796-13	7.525-09
50	133	9.001+01	1.663-01	2.020-13	2.248-08	52	143	5.646+01	1.991-00	9.517-13	3.986-08
50	134	8.993+01	1.175+01	1.995-11	2.218-06	52	144	5.634+01	7.335-01	5.818-13	2.432-08
50	135	8.880+01	1.443-00	1.706-12	1.873-07	52	145	5.626+01	2.918-00	1.385-12	5.779-08
50	140	5.758+01	1.854-00	5.530-13	3.937-08	52	150	5.355+01	9.480-02	6.793-14	2.698-09
50	146	5.388+01	5.883-01	1.537-13	1.024-08	53	55	4.108+04	2.204-01	4.337-08	3.964-00
50	147	5.388+01	2.907-02	1.265-14	8.426-10	53	58	9.441+03	3.910-01	4.064-09	8.539-02
50	148	5.386+01	2.164-01	1.318-13	8.775-09	53	70	9.250+02	1.305+04	1.302-06	2.681-00
50	149	5.366+01	2.845-02	1.228-14	8.147-10	53	88	1.337+02	7.387-00	1.981-11	5.896-06
50	154	5.291+01	1.137-03	6.679-16	4.369-11	53	90	1.335+02	2.976+01	6.189-11	1.839-05
51	52	2.808+04	6.875-01	2.438-07	1.693-00	53	92	1.329+02	1.009-00	2.077-12	6.141-07
51	59	2.504+03	6.549+01	1.846-07	1.143-01	53	103	1.279+02	7.336-01	1.399-12	3.980-07
51	71	7.449+02	3.898+03	9.727-07	1.792-01	53	104	1.277+02	1.503-01	4.493-13	1.277-07
51	77	1.567+02	2.134-00	2.356-11	9.127-07	53	106	1.277+02	2.338-02	4.443-14	1.262-08
51	85	1.353+02	2.068-01	1.703-12	5.697-08	53	107	1.276+02	3.473-02	8.481-14	2.409-08
51	87	1.327+02	1.848-02	1.463-13	4.799-09	53	108	1.275+02	3.686-02	8.990-14	2.552-08
51	93	1.294+02	9.903-01	7.456-12	2.386-07	53	109	1.275+02	5.172-02	1.541-13	4.373-08
51	118	1.151+02	1.028+01	6.124-11	1.743-06	53	117	1.173+02	1.978-00	3.171-12	8.274-07
51	129	1.041+02	5.148-00	2.511-11	6.465-07	53	124	1.129+02	1.034-03	1.539-15	3.868-10
51	131	1.028+02	1.014+01	4.819-11	1.225-06	53	125	1.129+02	7.873-02	1.505-13	3.782-08
51	143	5.635+01	2.334-01	3.333-13	4.644-09	53	126	1.129+02	5.965-04	1.140-15	2.863-10
51	145	5.615+01	4.766-00	6.759-12	9.384-08	53	127	1.129+02	1.789-02	4.176-14	1.049-08
52	54	1.711+04	2.571-00	1.880-07	2.385-00	53	137	8.705+01	1.814-01	1.603-13	3.104-08
52	57	8.372+03	7.504-01	1.314-08	8.161-02	53	138	8.701+01	2.518-03	2.858-15	5.534-10
52	59	2.749+03	1.537+02	1.741-07	3.549-01	53	139	8.693+01	1.217-00	1.072-12	2.074-07
52	68	9.258+02	7.401+02	1.585-07	1.089-01	53	151	5.368+01	1.351-00	4.539-13	5.422-08
52	69	9.088+02	1.246+03	2.572-07	1.734-01	53	152	5.367+01	1.674-04	7.228-17	8.633-12
52	71	7.652+02	7.639+03	6.706-07	3.807-01	53	153	5.365+01	7.822-01	2.625-13	3.134-08
52	76	1.582+02	5.164-01	3.230-12	3.790-07	54	55	9.781+04	7.605-04	1.527-09	1.847-01
52	77	1.576+02	2.891-00	1.076-11	1.257-06	54	57	1.640+04	2.787-03	1.123-10	2.276-03
52	84	1.362+02	9.793-02	9.078-14	9.172-09	54	58	1.089+04	2.821-00	7.026-08	9.464-01
52	85	1.360+02	1.224-01	3.393-13	3.423-08	54	59	3.275+03	7.237+01	6.981-08	2.827-01
52	86	1.336+02	2.062-00	1.840-12	1.824-07	54	68	9.788+02	9.286+02	1.334-07	1.614-01
52	87	1.333+02	1.725+01	4.595-11	4.544-06	54	69	9.598+02	6.020+03	8.314-07	9.866-01
52	89	1.328+02	5.733-00	2.526-11	2.489-06	54	70	9.372+02	1.208+03	2.227-07	2.581-01
52	91	1.323+02	9.448-01	4.134-12	4.059-07	54	71	8.011+02	1.992+03	1.150-07	1.139-01
52	93	1.300+02	2.489-00	6.305-12	6.080-07	54	76	1.597+02	2.477-01	9.469-13	1.870-07
52	102	1.272+02	5.629-02	2.275-13	2.146-08	54	77	1.590+02	3.126-01	7.111-13	1.398-07
52	115	1.170+02	6.435-02	2.199-13	1.908-08	54	85	1.371+02	3.360-01	5.677-13	9.621-08
52	116	1.168+02	2.728-01	9.306-13	8.066-08	54	87	1.343+02	3.099-00	5.031-12	8.356-07
52	118	1.156+02	1.856+01	3.717-11	3.187-06	54	89	1.338+02	2.941+01	7.900-11	1.307-05
52	128	1.047+02	1.530-01	8.376-14	6.502-09	54	90	1.338+02	2.409-00	9.052-12	1.497-06
52	129	1.045+02	1.242+01	2.034-11	1.577-06	54	91	1.334+02	1.880-01	5.013-13	8.266-08
52	130	1.037+02	5.772-01	1.551-12	1.193-07	54	92	1.331+02	1.185+01	4.405-11	7.249-06
52	131	1.032+02	1.108+01	1.769-11	1.354-06	54	93	1.310+02	4.636-00	7.155-12	1.159-06

Table 3. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic dipole (M1) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
54	102	1.281+02	6.000-02	1.477-13	2.340-08	55	139	8.711+01	5.192-03	5.907-15	8.907-10
54	103	1.281+02	4.428-02	1.525-13	2.415-08	55	144	5.656+01	2.751-01	9.423-14	9.225-09
54	106	1.279+02	8.065-02	2.768-13	4.376-08	55	150	5.375+01	2.622-00	8.112-13	7.547-08
54	115	1.178+02	5.111-02	1.063-13	1.547-08	55	151	5.375+01	2.111-02	9.140-15	8.503-10
54	116	1.177+02	9.811-05	2.036-16	2.961-11	55	152	5.374+01	1.487-03	8.276-16	7.698-11
54	117	1.174+02	2.755-02	7.976-14	1.158-08	55	153	5.372+01	8.623-05	3.730-17	3.468-12
54	118	1.164+02	4.238-00	5.162-12	7.427-07	56	60	1.664+03	8.175-04	1.018-12	4.191-07
54	124	1.131+02	1.174-03	3.153-15	4.410-10	56	78	1.482+02	6.282+01	6.207-10	2.275-05
54	129	1.052+02	3.127-01	3.110-13	4.044-08	56	81	1.464+02	1.205+01	1.162-10	4.206-06
54	130	1.043+02	1.318+01	2.151-11	2.774-06	56	94	1.291+02	3.115-02	2.333-13	7.446-09
54	131	1.038+02	2.346-04	2.273-16	2.918-11	56	110	1.282+02	5.591-00	4.134-11	1.311-06
54	136	8.717+01	1.832-02	2.087-14	2.249-09	56	111	1.276+02	2.926+02	2.144-09	6.768-05
54	137	8.715+01	1.371-02	2.186-14	2.356-09	56	114	1.187+02	3.250+01	2.059-10	6.041-06
54	139	8.704+01	8.890-02	1.413-13	1.521-08	56	132	9.230+01	4.988-01	1.911-12	4.362-08
54	143	5.665+01	1.620-00	4.676-13	3.275-08	56	140	5.850+01	2.675-00	4.117-12	5.955-08
54	144	5.653+01	1.625-00	7.786-13	5.441-08	56	146	5.468+01	5.506-05	7.404-17	1.001-12
54	145	5.645+01	3.734-01	1.070-13	7.470-09	57	58	3.246+04	1.197-01	2.647-08	1.062-00
54	150	5.372+01	7.276-02	3.148-14	2.091-09	57	59	4.092+03	7.486+01	1.128-07	5.705-01
54	151	5.372+01	1.135-01	6.873-14	4.564-09	57	68	1.041+03	3.622+03	5.884-07	7.573-01
54	153	5.369+01	9.667-02	5.848-14	3.882-09	57	69	1.020+03	1.492+03	2.325-07	2.931-01
55	57	1.970+04	1.216-00	5.054-08	1.723-00	57	70	9.940+02	3.587+02	7.439-08	9.142-02
55	58	1.226+04	1.286-00	2.898-08	6.149-01	57	71	8.422+02	6.703+03	4.277-07	4.453-01
55	68	9.887+02	1.314+04	1.376-06	2.355-00	57	76	1.613+02	3.100-02	1.208-13	2.409-08
55	69	9.693+02	8.406+01	8.458-09	1.419-02	57	77	1.606+02	2.110-00	4.894-12	9.716-07
55	70	9.463+02	1.950+01	2.617-09	4.287-03	57	85	1.382+02	9.210-02	1.583-13	2.705-08
55	76	1.599+02	5.846-02	1.602-13	4.434-08	57	87	1.354+02	1.706+01	2.815-11	4.714-06
55	88	1.342+02	3.510-00	1.218-11	2.829-06	57	89	1.349+02	1.107+01	3.021-11	5.041-06
55	89	1.340+02	9.671-01	1.860-12	4.316-07	57	90	1.349+02	1.011-00	3.861-12	6.439-07
55	90	1.340+02	1.857-00	4.997-12	1.159-06	57	91	1.345+02	6.003-02	1.627-13	2.705-08
55	91	1.336+02	3.635-01	6.942-13	1.605-07	57	92	1.342+02	2.433-00	9.195-12	1.526-06
55	92	1.333+02	4.500-00	1.198-11	2.765-06	57	93	1.320+02	3.086-00	4.840-12	7.901-07
55	102	1.283+02	6.484-01	1.143-12	2.538-07	57	102	1.291+02	3.452-02	8.631-14	1.378-08
55	103	1.283+02	7.437-03	1.834-14	4.073-09	57	103	1.291+02	2.142-02	7.494-14	1.196-08
55	106	1.281+02	4.884-02	1.201-13	2.661-08	57	106	1.289+02	9.792-03	3.414-14	5.440-09
55	107	1.280+02	6.351-03	2.006-14	4.446-09	57	115	1.186+02	1.762-00	3.717-12	5.451-07
55	108	1.279+02	4.868-02	1.536-13	3.401-08	57	116	1.185+02	2.521-01	5.308-13	7.776-08
55	115	1.179+02	8.615-01	1.282-12	2.617-07	57	117	1.183+02	2.420-04	7.110-16	1.040-10
55	116	1.178+02	9.428-04	1.401-15	2.856-10	57	118	1.172+02	6.251-00	7.723-12	1.119-06
55	117	1.176+02	1.129-02	2.340-14	4.763-09	57	124	1.139+02	7.143-02	1.945-13	2.740-08
55	124	1.133+02	1.071-01	2.060-13	4.038-08	57	129	1.058+02	1.149+01	1.158-11	1.515-06
55	125	1.132+02	6.044-05	1.494-16	2.928-11	57	130	1.050+02	1.541-00	2.548-12	3.308-07
55	126	1.132+02	1.270-02	3.137-14	6.147-09	57	131	1.045+02	5.625-00	5.521-12	7.131-07
55	130	1.044+02	1.940-00	2.266-12	4.097-07	57	136	8.764+01	1.562-01	1.798-13	1.948-08
55	136	8.725+01	7.078-01	5.769-13	8.713-08	57	137	8.762+01	9.156-03	1.475-14	1.598-09
55	137	8.723+01	2.317-04	2.643-16	3.991-11	57	139	8.750+01	1.012-01	1.627-13	1.760-08
55	138	8.720+01	3.436-03	5.036-15	7.601-10	57	143	5.684+01	1.337-00	3.887-13	2.732-08

Table 3. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic dipole (M1) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
57	144	5.672+01	1.551-01	7.484-14	5.248-09	59	93	1.364+02	5.887-00	1.643-11	1.663-06
57	145	5.664+01	5.122-01	1.478-13	1.035-08	59	102	1.334+02	1.939-02	8.613-14	8.520-09
57	150	5.390+01	1.325-00	5.770-13	3.844-08	59	115	1.222+02	1.969-00	7.344-12	6.655-07
57	151	5.389+01	5.230-02	3.188-14	2.124-09	59	116	1.220+02	2.901+01	1.080-10	9.772-06
57	153	5.386+01	3.130-02	1.906-14	1.269-09	59	118	1.207+02	1.258-00	2.746-12	2.458-07
58	68	1.076+03	9.097+01	1.127-08	2.097-02	59	128	1.088+02	1.883-00	1.114-12	8.988-08
58	69	1.052+03	5.431+03	6.443-07	1.174-00	59	129	1.087+02	6.390-00	1.131-11	9.115-07
58	70	1.025+03	5.039+03	7.943-07	1.410-00	59	130	1.078+02	7.341-00	2.130-11	1.703-06
58	76	1.621+02	2.231-01	6.274-13	1.760-07	59	131	1.072+02	5.370-01	9.252-13	7.358-08
58	88	1.357+02	2.587-01	9.178-13	2.155-07	59	136	8.955+01	5.086-02	1.019-13	6.770-09
58	89	1.355+02	2.037-00	4.006-12	9.397-07	59	142	5.767+01	1.241-02	2.062-15	8.820-11
58	90	1.355+02	6.644-01	1.828-12	4.286-07	59	143	5.765+01	4.011-01	1.998-13	8.546-09
58	91	1.350+02	1.615+01	3.153-11	7.369-06	59	144	5.752+01	3.264-01	2.699-13	1.151-08
58	92	1.348+02	3.743-00	1.019-11	2.376-06	59	145	5.744+01	4.453-03	2.203-15	9.386-11
58	102	1.297+02	4.311-02	7.760-14	1.741-08	59	150	5.462+01	3.573-01	2.663-13	1.079-08
58	103	1.296+02	2.039-01	5.136-13	1.152-07	60	63	8.840+04	2.657-02	5.189-08	3.403-00
58	106	1.294+02	5.506-02	1.382-13	3.096-08	60	65	2.325+04	6.089-02	8.227-09	1.419-01
58	107	1.294+02	6.090-03	1.965-14	4.400-09	60	75	9.449+02	5.932+03	1.323-06	9.277-01
58	108	1.293+02	6.303-02	2.031-13	4.545-08	60	78	1.627+02	2.330-03	9.248-15	1.116-09
58	115	1.191+02	4.160-02	6.314-14	1.301-08	60	79	1.617+02	3.045-02	1.989-13	2.385-08
58	116	1.189+02	3.806-00	5.765-12	1.187-06	60	81	1.606+02	8.635-03	3.337-14	3.974-09
58	117	1.187+02	1.836-00	3.880-12	7.975-07	60	82	1.600+02	2.258-05	1.443-16	1.713-11
58	124	1.143+02	2.008-02	3.934-14	7.784-09	60	83	1.554+02	1.888-04	2.279-16	2.627-11
58	125	1.143+02	7.913-02	1.992-13	3.941-08	60	94	1.399+02	1.860-00	5.458-12	5.665-07
58	126	1.143+02	1.028-02	2.588-14	5.118-09	60	95	1.397+02	2.318-01	1.131-12	1.172-07
58	130	1.053+02	1.441+01	1.712-11	3.122-06	60	99	1.393+02	6.764-02	3.278-13	3.386-08
58	136	8.787+01	1.175-02	9.715-15	1.478-09	60	110	1.389+02	3.356-02	9.710-14	1.001-08
58	137	8.786+01	6.425-02	7.435-14	1.131-08	60	111	1.382+02	2.851-03	8.169-15	8.378-10
58	138	8.782+01	3.614-03	5.373-15	8.168-10	60	112	1.379+02	4.111-02	1.952-13	1.996-08
58	139	8.774+01	4.380-01	5.054-13	7.676-08	60	113	1.360+02	6.531-06	6.035-18	6.087-13
58	144	5.682+01	1.548-00	5.350-13	5.262-08	60	114	1.278+02	2.451-03	6.001-15	5.689-10
58	150	5.399+01	9.799-02	3.058-14	2.858-09	60	119	1.251+02	2.596-07	2.031-19	1.885-14
58	151	5.398+01	4.813-01	2.103-13	1.965-08	60	123	1.220+02	9.068-02	3.370-13	3.050-08
58	152	5.398+01	2.455-03	1.378-15	1.288-10	60	132	9.772+01	1.082-01	1.549-13	1.123-08
58	153	5.395+01	5.082-01	2.218-13	2.071-08	60	133	9.767+01	1.362-02	3.247-14	2.352-09
59	68	1.396+03	1.740+02	8.473-08	8.775-02	60	135	9.625+01	1.511-00	3.498-12	2.497-07
59	69	1.358+03	3.030+03	1.396-06	1.406-00	60	140	6.063+01	3.142-03	1.731-15	7.786-11
59	71	1.060+03	1.408+03	2.374-07	1.868-01	60	141	6.030+01	1.069-07	1.942-20	8.688-16
59	76	1.679+02	1.968-00	1.386-11	1.726-06	60	146	5.654+01	1.041-01	4.991-14	2.093-09
59	77	1.671+02	1.676-01	7.018-13	8.702-08	60	147	5.653+01	5.314-02	4.243-14	1.779-09
59	84	1.433+02	5.663-00	5.811-12	6.177-07	60	149	5.629+01	1.777-01	1.407-13	5.877-09
59	85	1.431+02	1.785-00	5.476-12	5.811-07	61	62	7.354+05	2.628-05	2.604-09	4.262-00
59	86	1.404+02	5.660+01	5.579-11	5.813-06	61	64	2.604+04	2.987-02	2.361-09	1.368-01
59	87	1.401+02	2.166+01	6.372-11	6.622-06	61	66	2.197+04	4.399-01	2.476-08	1.211-00
59	89	1.396+02	1.885-02	9.174-14	9.496-09	61	67	1.935+04	4.506-02	2.528-09	1.088-01
59	91	1.390+02	3.912-00	1.890-11	1.949-06	61	72	9.632+02	1.242+04	1.344-06	2.881-00

Table 3. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic dipole (M1) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
61	73	9.550+02	1.229+02	1.681-08	3.572-02	63	120	1.223+02	3.548-04	1.113-15	1.683-10
61	74	9.460+02	1.527-02	1.594-12	3.355-06	63	121	1.222+02	1.573-04	4.931-16	7.449-11
61	80	1.610+02	1.621-04	4.898-16	1.755-10	63	123	1.221+02	3.326-02	7.439-14	1.123-08
61	96	1.397+02	2.660-01	9.510-13	2.956-07	63	132	9.783+01	1.929-01	1.660-13	2.008-08
61	97	1.397+02	2.460-00	7.194-12	2.236-06	63	133	9.778+01	5.968-01	8.554-13	1.034-07
61	98	1.394+02	4.025-02	9.119-14	2.829-08	63	134	9.769+01	9.860-02	1.975-13	2.385-08
61	100	1.392+02	4.335-02	9.802-14	3.038-08	63	135	9.636+01	1.881-01	2.618-13	3.119-08
61	101	1.392+02	2.205-01	6.405-13	1.984-07	63	140	6.067+01	3.423-04	1.134-16	8.502-12
61	120	1.221+02	1.289-01	2.240-13	6.086-08	63	146	5.657+01	2.046-01	5.891-14	4.121-09
61	121	1.220+02	1.541-05	2.676-17	7.268-12	63	147	5.656+01	3.045-01	1.460-13	1.021-08
61	122	1.220+02	4.802-04	1.072-15	2.911-10	63	148	5.655+01	3.914-02	2.627-14	1.836-09
61	134	9.758+01	5.326-03	5.914-15	1.284-09	63	149	5.633+01	1.512-02	7.192-15	5.008-10
61	148	5.651+01	5.813-03	2.165-15	2.723-10	63	154	5.550+01	4.479-02	2.896-14	1.987-09
61	154	5.547+01	6.619-00	2.374-12	2.931-07	64	65	2.278+05	9.775-04	5.434-09	2.143-00
61	155	5.547+01	8.812-03	4.064-15	5.017-10	64	66	1.407+05	1.232-04	3.655-10	8.898-02
61	156	5.546+01	3.014-04	1.699-16	2.097-11	64	67	7.526+04	1.794-02	1.958-08	2.550-00
61	157	5.546+01	6.811-02	3.141-14	3.876-09	64	72	1.000+03	9.042+02	1.356-07	2.348-01
62	67	1.987+04	3.801-01	1.841-08	9.947-01	64	73	9.913+02	1.352+03	2.560-07	4.393-01
62	73	9.562+02	1.205+04	1.351-06	3.514-00	64	74	9.817+02	5.751+03	8.308-07	1.412-00
62	96	1.397+02	5.962-00	1.744-11	6.629-06	64	75	9.807+02	1.578+03	1.625-07	2.758-01
62	97	1.397+02	3.102-00	7.424-12	2.821-06	64	79	1.627+02	8.010-03	2.271-14	6.394-09
62	101	1.392+02	1.908-03	4.535-15	1.717-09	64	80	1.620+02	3.820-02	1.503-13	4.213-08
62	122	1.220+02	3.741-01	6.835-13	2.269-07	64	82	1.609+02	2.212-04	6.137-16	1.710-10
62	155	5.547+01	3.494-01	1.319-13	1.990-08	64	95	1.405+02	2.370-03	5.009-15	1.218-09
62	156	5.547+01	3.208-03	1.479-15	2.232-10	64	97	1.404+02	1.806-02	6.866-14	1.669-08
62	157	5.547+01	6.087-00	2.297-12	3.465-07	64	98	1.401+02	9.361-00	2.757-11	6.687-06
63	64	3.662+04	2.049-01	5.768-08	2.612-00	64	99	1.400+02	3.143-01	6.597-13	1.599-07
63	65	3.155+04	2.968-03	4.430-10	1.728-02	64	100	1.400+02	2.787-03	8.190-15	1.985-09
63	66	2.906+04	1.596-03	2.829-10	1.016-02	64	101	1.399+02	2.497-00	9.425-12	2.283-06
63	72	9.736+02	2.374+02	4.724-08	5.686-02	64	112	1.386+02	4.091-02	8.414-14	2.019-08
63	74	9.560+02	5.007+03	9.605-07	1.135-00	64	120	1.227+02	6.648-02	1.500-13	3.184-08
63	75	9.551+02	2.436+03	3.332-07	3.934-01	64	121	1.226+02	7.880-02	1.776-13	3.769-08
63	78	1.630+02	2.622-03	6.268-15	1.263-09	64	122	1.226+02	5.377-02	1.558-13	3.305-08
63	79	1.620+02	1.274-03	5.009-15	1.003-09	64	123	1.226+02	7.991-04	1.285-15	2.726-10
63	80	1.613+02	4.425-02	2.416-13	4.817-08	64	133	9.804+01	2.769-03	2.850-15	4.836-10
63	81	1.608+02	1.508-04	3.510-16	6.979-11	64	134	9.795+01	1.138-00	1.637-12	2.775-07
63	82	1.602+02	3.079-05	1.185-16	2.348-11	64	135	9.661+01	5.120-02	5.117-14	8.556-09
63	94	1.401+02	7.739-01	1.367-12	2.368-07	64	147	5.665+01	3.834-02	1.318-14	1.292-09
63	95	1.399+02	6.350-00	1.865-11	3.226-06	64	148	5.664+01	2.565-01	1.233-13	1.209-08
63	98	1.396+02	3.561-01	1.457-12	2.514-07	64	149	5.642+01	2.885-02	9.833-15	9.602-10
63	99	1.395+02	7.175-02	2.093-13	3.609-08	64	154	5.558+01	4.539-01	2.102-13	2.023-08
63	100	1.395+02	1.286-01	5.252-13	9.055-08	64	155	5.559+01	1.081-02	6.437-15	6.194-10
63	110	1.391+02	2.872-01	5.002-13	8.605-08	64	157	5.558+01	8.513-01	5.069-13	4.876-08
63	111	1.385+02	2.859-02	4.931-14	8.441-09	65	66	3.676+05	3.282-05	9.306-10	4.229-01
63	112	1.381+02	3.239-02	9.258-14	1.580-08	65	72	1.005+03	1.298+03	2.749-07	3.415-01
63	114	1.280+02	8.129-04	1.197-15	1.895-10	65	74	9.859+02	1.871+03	3.818-07	4.654-01

Table 3. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic dipole (M1) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
65	75	9.850+02	5.040+03	7.330-07	8.926-01	66	123	1.227+02	3.770-02	6.074-14	1.289-08
65	78	1.639+02	2.501-06	6.039-18	1.223-12	66	133	9.811+01	2.857-01	2.945-13	5.001-08
65	79	1.628+02	3.363-03	1.336-14	2.690-09	66	134	9.802+01	1.633-01	2.351-13	3.989-08
65	80	1.621+02	2.965-03	1.635-14	3.277-09	66	135	9.668+01	1.410-00	1.411-12	2.361-07
65	81	1.617+02	3.062-03	7.198-15	1.439-09	66	147	5.667+01	2.013-02	6.923-15	6.791-10
65	82	1.611+02	7.024-05	2.732-16	5.440-11	66	148	5.666+01	1.887-02	9.084-15	8.909-10
65	94	1.408+02	2.103-00	3.748-12	6.522-07	66	149	5.644+01	1.827-01	6.233-14	6.089-09
65	95	1.406+02	9.813-02	2.907-13	5.052-08	66	154	5.561+01	2.886-00	1.338-12	1.288-07
65	98	1.402+02	4.840-01	1.998-12	3.464-07	66	155	5.561+01	5.853-03	3.488-15	3.358-10
65	99	1.401+02	3.993-00	1.175-11	2.035-06	66	157	5.560+01	3.555-01	2.119-13	2.039-08
65	100	1.401+02	5.347-01	2.202-12	3.814-07	67	72	1.014+03	8.445+01	1.012-08	2.283-02
65	110	1.398+02	1.187-01	2.086-13	3.605-08	67	73	1.005+03	5.344+03	8.084-07	1.807-00
65	111	1.391+02	2.474-02	4.304-14	7.401-09	67	74	9.946+02	5.119+03	5.905-07	1.307-00
65	112	1.387+02	2.541-02	7.326-14	1.256-08	67	80	1.623+02	3.518-02	1.081-13	3.905-08
65	114	1.285+02	1.823-04	2.707-16	4.301-11	67	96	1.407+02	6.210-02	2.252-13	7.051-08
65	120	1.227+02	1.454-01	4.598-13	6.978-08	67	97	1.407+02	9.520-02	2.825-13	8.844-08
65	121	1.227+02	1.961-01	6.193-13	9.392-08	67	98	1.404+02	1.471-00	3.383-12	1.057-06
65	123	1.226+02	1.132-01	2.552-13	3.869-08	67	100	1.403+02	3.000-00	6.881-12	2.148-06
65	132	9.813+01	6.148-02	5.325-14	6.461-09	67	101	1.402+02	2.184-00	6.434-12	2.007-06
65	133	9.808+01	1.787-01	2.577-13	3.125-08	67	120	1.229+02	1.156-02	2.036-14	5.566-09
65	134	9.799+01	2.219-01	4.472-13	5.418-08	67	121	1.228+02	1.842-01	3.239-13	8.853-08
65	135	9.665+01	1.877-00	2.629-12	3.141-07	67	122	1.228+02	2.920-01	6.600-13	1.804-07
65	140	6.079+01	3.115-06	1.035-18	7.781-14	67	134	9.807+01	4.542-01	5.094-13	1.112-07
65	146	5.667+01	4.878-02	1.409-14	9.875-10	67	148	5.668+01	3.138-03	1.175-15	1.482-10
65	147	5.667+01	2.979-04	1.434-16	1.005-11	67	154	5.563+01	4.287-02	1.547-14	1.915-09
65	148	5.665+01	9.576-03	6.450-15	4.518-10	67	155	5.563+01	9.336-02	4.331-14	5.361-09
65	149	5.643+01	4.479-01	2.138-13	1.492-08	67	156	5.562+01	3.344-02	1.895-14	2.346-09
65	154	5.560+01	1.118-00	7.251-13	4.984-08	67	157	5.562+01	2.877-00	1.334-12	1.651-07
66	67	1.619+05	1.400-03	7.072-09	1.981-00	68	69	4.939+04	3.093-03	1.131-09	6.908-02
66	72	1.007+03	4.304+03	6.547-07	1.142-00	68	70	2.204+04	9.472-01	9.655-08	2.631-00
66	73	9.984+02	4.851+02	9.319-08	1.611-01	68	71	4.411+03	6.269-00	1.097-08	5.984-02
66	74	9.885+02	1.387+03	2.032-07	3.478-01	68	76	1.908+02	4.999-02	2.729-13	6.438-08
66	75	9.876+02	4.350+03	4.543-07	7.766-01	68	77	1.899+02	2.716-01	8.807-13	2.067-07
66	79	1.629+02	1.801-04	5.117-16	1.443-10	68	85	1.594+02	3.794-02	8.669-14	1.708-08
66	80	1.622+02	4.098-03	1.616-14	4.536-09	68	87	1.557+02	6.434-01	1.403-12	2.701-07
66	82	1.611+02	5.795-04	1.611-15	4.494-10	68	89	1.551+02	4.683-02	1.688-13	3.236-08
66	95	1.406+02	1.031-00	2.184-12	5.316-07	68	90	1.550+02	4.317-02	2.176-13	4.170-08
66	97	1.406+02	7.018-02	2.673-13	6.503-08	68	91	1.544+02	2.027-01	7.246-13	1.383-07
66	98	1.403+02	2.189-00	6.460-12	1.569-06	68	92	1.541+02	6.766-02	3.370-13	6.419-08
66	99	1.401+02	3.738-00	7.863-12	1.907-06	68	93	1.512+02	3.093-00	6.363-12	1.190-06
66	100	1.401+02	3.542-01	1.043-12	2.529-07	68	102	1.474+02	9.912-03	3.230-14	5.887-09
66	101	1.401+02	3.478-04	1.315-15	3.189-10	68	103	1.474+02	8.413-06	3.835-17	6.989-12
66	112	1.387+02	1.755-03	3.616-15	8.684-10	68	106	1.471+02	7.592-02	3.448-13	6.270-08
66	120	1.228+02	2.806-01	6.342-13	1.348-07	68	115	1.339+02	7.287-00	1.958-11	3.240-06
66	121	1.227+02	3.892-02	8.787-14	1.866-08	68	116	1.337+02	5.039-00	1.351-11	2.233-06
66	122	1.227+02	1.804-02	5.235-14	1.112-08	68	117	1.335+02	1.609+01	6.014-11	9.924-06

Table 3. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic dipole (M1) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
68	118	1.321+02	7.876-01	1.236-12	2.018-07	70	88	1.564+02	1.640-00	7.725-12	2.091-06
68	124	1.279+02	4.904-01	1.684-12	2.663-07	70	89	1.561+02	6.921-01	1.807-12	4.884-07
68	129	1.178+02	3.492-00	4.360-12	6.352-07	70	90	1.561+02	1.677-02	6.126-14	1.655-08
68	130	1.168+02	1.338-00	2.736-12	3.951-07	70	91	1.555+02	8.714-03	2.256-14	6.072-09
68	131	1.161+02	8.955-02	1.086-13	1.559-08	70	92	1.551+02	1.209-01	4.364-13	1.172-07
68	136	9.569+01	3.098-02	4.252-14	5.031-09	70	102	1.484+02	1.179-02	2.781-14	7.146-09
68	137	9.567+01	3.762-01	7.227-13	8.548-08	70	103	1.484+02	1.825-02	6.023-14	1.547-08
68	139	9.553+01	5.897-01	1.130-12	1.334-07	70	106	1.481+02	1.872-02	6.153-14	1.577-08
68	143	6.013+01	2.338-01	7.602-14	5.651-09	70	107	1.481+02	4.424-02	1.869-13	4.790-08
68	144	5.999+01	1.978-01	1.067-13	7.916-09	70	108	1.479+02	3.030-03	1.279-14	3.274-09
68	145	5.990+01	2.753-03	8.885-16	6.581-11	70	115	1.347+02	5.533-00	1.075-11	2.506-06
68	150	5.684+01	1.617-01	7.832-14	5.504-09	70	116	1.345+02	2.925-00	5.668-12	1.320-06
68	151	5.684+01	1.339-00	9.076-13	6.378-08	70	117	1.343+02	1.136+01	3.071-11	7.138-06
68	153	5.680+01	1.921-01	1.301-13	9.137-09	70	124	1.286+02	7.932-04	1.968-15	4.383-10
69	70	3.979+04	5.158-02	1.714-08	8.432-01	70	125	1.286+02	3.987-01	1.271-12	2.831-07
69	71	4.844+03	9.907+01	2.091-07	1.252-00	70	126	1.286+02	2.277-01	7.257-13	1.615-07
69	76	1.916+02	1.512-01	8.316-13	1.969-07	70	130	1.174+02	4.142-00	6.115-12	1.243-06
69	77	1.906+02	2.014-00	6.581-12	1.551-06	70	136	9.611+01	2.471-03	2.444-15	4.065-10
69	85	1.599+02	2.806-00	6.454-12	1.276-06	70	137	9.609+01	1.060-04	1.468-16	2.441-11
69	87	1.562+02	1.860-01	4.083-13	7.885-08	70	138	9.605+01	3.828-01	6.806-13	1.132-07
69	89	1.555+02	4.988-01	1.809-12	3.479-07	70	139	9.595+01	2.304-01	3.179-13	5.280-08
69	90	1.555+02	5.027-02	2.550-13	4.901-08	70	144	6.015+01	5.228-01	2.026-13	2.109-08
69	91	1.549+02	7.835-02	2.818-13	5.396-08	70	150	5.699+01	1.220-02	4.244-15	4.186-10
69	92	1.545+02	4.084-01	2.047-12	3.911-07	70	151	5.698+01	7.076-03	3.445-15	3.398-10
69	93	1.517+02	4.620+01	9.561-11	1.793-05	70	152	5.698+01	2.184-00	1.367-12	1.348-07
69	102	1.479+02	3.392-03	1.112-14	2.033-09	70	153	5.695+01	1.896-01	9.219-14	9.088-09
69	103	1.478+02	3.645-02	1.672-13	3.055-08	71	76	1.994+02	7.598-01	7.552-12	1.117-06
69	106	1.475+02	3.191-03	1.458-14	2.659-09	71	77	1.984+02	1.125-00	6.636-12	9.766-07
69	115	1.342+02	5.699-02	1.540-13	2.555-08	71	84	1.657+02	1.676+01	2.299-11	2.825-06
69	116	1.341+02	1.956-01	5.271-13	8.737-08	71	85	1.654+02	2.880-00	1.181-11	1.448-06
69	117	1.338+02	3.513-00	1.321-11	2.185-06	71	86	1.619+02	7.121+01	9.326-11	1.120-05
69	118	1.324+02	1.000-01	1.578-13	2.583-08	71	87	1.614+02	3.725+01	1.455-10	1.742-05
69	124	1.282+02	2.532-01	8.739-13	1.386-07	71	89	1.607+02	2.376-00	1.533-11	1.828-06
69	129	1.181+02	1.146-03	1.438-15	2.099-10	71	91	1.600+02	5.944-00	3.803-11	4.513-06
69	130	1.171+02	1.201+01	2.467-11	3.570-06	71	93	1.566+02	5.569-01	2.047-12	2.378-07
69	131	1.164+02	3.252+01	3.963-11	5.703-06	71	102	1.525+02	1.985-02	1.154-13	1.305-08
69	136	9.588+01	7.722-03	1.064-14	1.262-09	71	115	1.381+02	6.053-01	2.883-12	2.953-07
69	137	9.586+01	4.019-03	7.751-15	9.186-10	71	116	1.379+02	6.641+01	3.156-10	3.228-05
69	139	9.572+01	2.393-01	4.601-13	5.444-08	71	118	1.361+02	7.937-00	2.206-11	2.228-06
69	143	6.020+01	1.268-00	4.135-13	3.078-08	71	128	1.212+02	2.232+01	1.640-11	1.475-06
69	144	6.006+01	1.051-00	5.687-13	4.224-08	71	129	1.211+02	1.223+01	2.686-11	2.412-06
69	145	5.998+01	5.016-00	1.623-12	1.203-07	71	130	1.200+02	9.747-02	3.505-13	3.119-08
69	150	5.690+01	9.458-02	4.591-14	3.230-09	71	131	1.192+02	1.562-01	3.331-13	2.947-08
69	151	5.690+01	4.926-02	3.348-14	2.355-09	71	136	9.781+01	3.392-02	8.110-14	5.884-09
69	153	5.687+01	2.269-01	1.540-13	1.083-08	71	142	6.098+01	1.872-00	3.479-13	1.574-08
70	76	1.925+02	3.869-02	1.535-13	5.115-08	71	143	6.096+01	1.108-00	6.171-13	2.790-08

Table 3. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic dipole (M1) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
71	144	6.082+01	6.809-02	6.293-14	2.839-09	74	79	1.950+02	4.141-02	1.687-13	5.693-08
71	145	6.073+01	2.340-01	1.294-13	5.828-09	74	80	1.940+02	1.750-02	9.874-14	3.316-08
71	150	5.758+01	2.653-01	2.198-13	9.389-09	74	82	1.925+02	1.233-03	4.892-15	1.630-09
72	73	1.114+05	8.883-03	2.126-08	4.101-00	74	95	1.639+02	2.327-01	6.699-13	1.901-07
72	74	5.288+04	1.226-05	5.140-12	4.705-04	74	97	1.639+02	5.707-04	2.954-15	8.378-10
72	75	5.028+04	1.220-02	3.302-09	2.873-01	74	98	1.635+02	8.935-03	3.581-14	1.013-08
72	79	1.943+02	1.354-03	5.475-15	1.841-09	74	99	1.633+02	4.549-03	1.299-14	3.672-09
72	80	1.933+02	1.943-03	1.088-14	3.641-09	74	100	1.633+02	1.635-03	6.534-15	1.847-09
72	82	1.918+02	2.933-04	1.156-15	3.836-10	74	101	1.632+02	1.444-02	7.412-14	2.094-08
72	95	1.634+02	1.807-02	5.168-14	1.462-08	74	112	1.614+02	5.740-02	1.601-13	4.470-08
72	97	1.634+02	7.948-03	4.088-14	1.156-08	74	120	1.402+02	1.753-03	5.164-15	1.253-09
72	98	1.630+02	4.752-04	1.892-15	5.339-10	74	121	1.401+02	1.805-00	5.313-12	1.288-06
72	99	1.628+02	1.007-02	2.857-14	8.051-09	74	122	1.401+02	1.278-00	4.834-12	1.172-06
72	100	1.628+02	1.192-01	4.735-13	1.334-07	74	123	1.400+02	2.369-00	4.974-12	1.205-06
72	101	1.627+02	1.237-03	6.309-15	1.777-09	74	133	1.089+02	5.533-02	7.029-14	1.325-08
72	112	1.609+02	6.227-03	1.726-14	4.806-09	74	134	1.088+02	2.873-02	5.099-14	9.604-09
72	120	1.398+02	5.915-00	1.734-11	4.195-06	74	135	1.072+02	3.649-00	4.487-12	8.322-07
72	121	1.397+02	4.020-01	1.177-12	2.847-07	74	147	6.012+01	3.935-02	1.523-14	1.585-09
72	122	1.397+02	9.109-01	3.427-12	8.289-07	74	148	6.010+01	1.149-01	6.222-14	6.473-09
72	123	1.397+02	1.499-00	3.130-12	7.567-07	74	149	5.986+01	6.438-01	2.470-13	2.559-08
72	133	1.087+02	1.208-01	1.528-13	2.874-08	74	154	5.892+01	7.891-02	4.107-14	4.189-09
72	134	1.086+02	2.109-02	3.727-14	7.005-09	74	155	5.892+01	1.956-02	1.309-14	1.335-09
72	135	1.069+02	3.608-01	4.418-13	8.178-08	74	157	5.892+01	1.043-00	6.979-13	7.117-08
72	147	6.005+01	1.629-03	6.291-16	6.539-11	75	78	1.966+02	1.803-03	6.265-15	1.523-09
72	148	6.004+01	1.305-03	7.051-16	7.327-11	75	79	1.951+02	1.934-03	1.103-14	2.660-09
72	149	5.979+01	5.891-02	2.255-14	2.334-09	75	80	1.940+02	4.350-02	3.438-13	8.247-08
72	154	5.886+01	5.961-01	3.096-13	3.154-08	75	81	1.934+02	1.893-04	6.370-16	1.523-10
72	155	5.886+01	5.241-00	3.499-12	3.565-07	75	82	1.926+02	4.902-03	2.725-14	6.487-09
72	157	5.885+01	4.259-02	2.843-14	2.896-09	75	94	1.642+02	1.163-00	2.821-12	5.728-07
73	74	1.006+05	2.491-03	2.943-09	6.591-01	75	95	1.640+02	2.012-01	8.109-13	1.644-07
73	80	1.936+02	6.329-03	2.767-14	1.192-08	75	98	1.635+02	1.898-03	1.065-14	2.154-09
73	96	1.636+02	9.832-02	4.822-13	1.756-07	75	99	1.633+02	2.000-04	7.998-16	1.615-10
73	97	1.636+02	7.147-04	2.868-15	1.044-09	75	100	1.633+02	4.533-04	2.538-15	5.123-10
73	98	1.632+02	4.572-03	1.420-14	5.159-09	75	110	1.629+02	7.825-04	1.867-15	3.760-10
73	100	1.630+02	1.002-03	3.106-15	1.127-09	75	111	1.619+02	2.352-03	5.547-15	1.111-09
73	101	1.629+02	1.132-01	4.505-13	1.633-07	75	112	1.614+02	1.753-04	6.844-16	1.366-10
73	120	1.400+02	1.235-00	2.822-12	8.792-07	75	114	1.478+02	2.693-04	5.289-16	9.664-11
73	121	1.399+02	1.204-00	2.749-12	8.559-07	75	120	1.402+02	8.126-01	3.353-12	5.812-07
73	122	1.399+02	1.060+01	3.110-11	9.683-06	75	121	1.401+02	5.325-01	2.194-12	3.802-07
73	134	1.087+02	1.330-01	1.833-13	4.433-08	75	123	1.401+02	4.877-01	1.434-12	2.483-07
73	148	6.007+01	5.838-05	2.456-17	3.283-12	75	132	1.090+02	8.941-01	9.554-13	1.287-07
73	154	5.889+01	2.783-03	1.125-15	1.475-10	75	133	1.089+02	2.050-01	3.647-13	4.912-08
73	155	5.889+01	5.253-02	2.731-14	3.579-09	75	134	1.088+02	9.298-03	2.311-14	3.109-09
73	156	5.888+01	5.553-00	3.528-12	4.623-07	75	135	1.072+02	2.025-01	3.486-13	4.619-08
73	157	5.888+01	9.184-01	4.774-13	6.255-08	75	140	6.478+01	2.906-05	1.097-17	8.788-13
74	75	1.022+06	1.393-05	1.557-09	2.753-00	75	146	6.013+01	2.376-02	7.727-15	5.745-10

Table 3. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic dipole (M1) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
75	147	6.013+01	7.003-04	3.796-16	2.822-11	77	131	2.990+02	5.370-00	7.195-11	1.596-05
75	148	6.011+01	1.973-02	1.496-14	1.112-09	77	136	1.929+02	1.635-05	1.521-16	2.176-11
75	149	5.986+01	3.097-04	1.664-16	1.231-11	77	142	8.804+01	1.823+01	7.063-12	4.613-07
75	154	5.892+01	1.025-00	7.467-13	5.440-08	77	143	8.800+01	6.755-01	7.842-13	5.119-08
76	77	3.765+04	1.492-01	1.902-08	8.853-01	77	144	8.771+01	6.378-01	1.226-12	7.976-08
76	85	9.673+02	1.591+04	1.339-06	1.602-00	77	145	8.752+01	8.239-01	9.461-13	6.142-08
76	87	8.464+02	1.091+02	7.033-09	7.360-03	77	150	8.112+01	2.186-05	3.596-17	2.164-12
76	89	8.270+02	8.428-02	8.641-12	8.835-06	78	79	2.566+04	7.936-02	1.305-08	2.485-01
76	90	8.251+02	9.705-03	1.387-12	1.415-06	78	81	1.212+04	3.370-01	7.423-09	6.674-02
76	91	8.091+02	1.653-02	1.622-12	1.623-06	78	82	9.466+03	3.496-00	7.828-08	5.497-01
76	92	7.995+02	6.574-02	8.819-12	8.718-06	78	83	3.472+03	1.999+02	1.205-07	3.104-01
76	93	7.286+02	1.586+02	7.576-09	6.825-03	78	94	9.985+02	4.415+01	6.598-09	4.887-03
76	102	6.484+02	7.789-06	4.909-16	3.935-10	78	95	9.892+02	1.158-00	2.833-10	2.079-04
76	103	6.475+02	3.418-06	3.007-16	2.407-10	78	99	9.664+02	1.139-02	2.658-12	1.905-06
76	106	6.419+02	2.439-06	2.110-16	1.674-10	78	110	9.508+02	2.702+03	3.662-07	2.583-01
76	115	4.486+02	6.070-02	1.831-12	1.015-06	78	111	9.196+02	1.882+03	2.386-07	1.628-01
76	116	4.468+02	7.067-01	2.115-11	1.168-05	78	112	9.024+02	2.933+02	5.966-08	3.994-02
76	117	4.441+02	1.433-01	5.933-12	3.257-06	78	113	8.279+02	1.526+04	5.227-07	3.210-01
76	118	4.290+02	5.959-00	9.864-11	5.232-05	78	114	5.954+02	1.301+02	6.917-09	3.055-03
76	124	3.879+02	6.210-08	1.962-18	9.409-13	78	119	5.414+02	1.596+02	2.338-09	9.389-04
76	129	3.080+02	5.136+01	4.382-10	1.669-04	78	123	4.871+02	3.039-02	1.802-12	6.512-07
76	130	3.010+02	5.561-03	7.554-14	2.811-08	78	132	2.447+02	1.801-00	1.616-11	2.933-06
76	131	2.966+02	3.246+01	2.569-10	9.419-05	78	133	2.444+02	2.074-01	3.095-12	5.610-07
76	136	1.919+02	6.344-04	3.504-15	8.316-10	78	135	2.356+02	1.516-01	2.103-12	3.676-07
76	137	1.919+02	3.609-04	2.789-15	6.616-10	78	140	9.664+01	3.815-00	5.341-12	3.828-07
76	139	1.913+02	1.140-07	8.756-19	2.071-13	78	141	9.582+01	1.250-01	5.734-14	4.076-09
76	143	8.779+01	1.332+01	9.233-12	1.002-06	78	146	8.664+01	4.272-01	4.808-13	3.090-08
76	144	8.750+01	1.207-02	1.385-14	1.499-09	78	147	8.662+01	5.249-02	9.842-14	6.324-09
76	145	8.731+01	6.895-00	4.729-12	5.104-07	78	149	8.607+01	7.783-02	1.441-13	9.200-09
76	150	8.095+01	1.981-03	1.946-15	1.948-10	79	80	3.718+04	1.805-01	5.237-08	2.408-00
76	151	8.095+01	8.553-05	1.176-16	1.177-11	79	81	2.297+04	5.244-01	2.489-08	7.069-01
76	153	8.088+01	7.006-05	9.619-17	9.618-12	79	82	1.500+04	1.173-00	3.956-08	7.336-01
77	84	1.005+03	1.847+04	9.320-07	6.947-01	79	94	1.039+03	4.325+02	4.199-08	5.393-02
77	85	9.928+02	3.100+03	4.581-07	3.373-01	79	95	1.029+03	1.063-02	1.686-12	2.145-06
77	86	8.798+02	1.916+02	7.414-09	4.839-03	79	98	1.011+03	9.210-04	1.977-13	2.471-07
77	87	8.659+02	3.014+01	3.388-09	2.176-03	79	99	1.004+03	4.546-03	6.874-13	8.535-07
77	89	8.456+02	1.689-01	3.018-11	1.893-05	79	100	1.003+03	8.286-03	1.751-12	2.172-06
77	91	8.268+02	5.290-01	9.037-11	5.543-05	79	110	9.873+02	1.503+04	1.318-06	1.609-00
77	93	7.430+02	2.337+01	1.934-09	1.066-03	79	111	9.538+02	2.760+02	2.259-08	2.664-02
77	102	6.597+02	1.748-05	1.902-15	9.306-10	79	112	9.352+02	8.407-00	1.102-09	1.275-03
77	115	4.540+02	3.408-01	1.755-11	5.909-06	79	114	6.096+02	4.794+01	1.602-09	1.208-03
77	116	4.522+02	6.266-00	3.201-10	1.074-04	79	120	4.986+02	4.429-02	2.311-12	1.425-06
77	118	4.340+02	9.247-00	2.610-10	8.403-05	79	121	4.976+02	2.710-01	1.408-11	8.665-06
77	128	3.117+02	1.193+02	5.795-10	1.340-04	79	123	4.966+02	2.809-01	1.038-11	6.375-06
77	129	3.105+02	7.468-00	1.080-10	2.487-05	79	132	2.470+02	2.541+01	1.394-10	4.259-05
77	130	3.034+02	3.393-01	7.805-12	1.757-06	79	133	2.467+02	1.361-05	1.242-16	3.787-11

Table 3. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic dipole (M1) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
79	134	2.461+02	1.098-01	1.396-12	4.249-07	81	146	8.727+01	1.368-00	1.562-12	1.011-07
79	135	2.378+02	2.066-02	1.752-13	5.151-08	81	147	8.725+01	1.275-01	2.426-13	1.570-08
79	140	9.700+01	1.862-00	1.576-12	1.890-07	81	149	8.669+01	1.236-01	2.321-13	1.492-08
79	146	8.694+01	6.140-00	4.175-12	4.487-07	82	94	1.116+03	2.379-00	2.666-10	3.679-04
79	147	8.692+01	7.058-03	7.994-15	8.590-10	82	95	1.105+03	1.721+01	3.148-09	4.300-03
79	148	8.688+01	5.344-01	8.466-13	9.094-08	82	98	1.084+03	1.062-05	2.621-15	3.514-09
79	149	8.636+01	3.752-06	4.195-18	4.479-13	82	99	1.076+03	1.842-01	3.200-11	4.258-05
79	154	8.443+01	7.693-07	1.151-18	1.201-13	82	100	1.075+03	1.337-05	3.244-15	4.314-09
80	82	2.514+04	1.248-03	8.449-11	3.677-03	82	110	1.057+03	1.759+02	1.767-08	2.309-02
80	95	1.058+03	4.712+01	5.650-09	1.035-02	82	111	1.019+03	7.278+03	6.793-07	8.554-01
80	97	1.055+03	8.441-05	1.810-14	3.305-08	82	112	9.974+02	4.664+03	6.956-07	8.578-01
80	98	1.040+03	7.089-02	1.148-11	2.066-05	82	114	6.354+02	2.800+02	1.017-08	7.989-03
80	99	1.032+03	9.467-01	1.080-10	1.929-04	82	120	5.158+02	3.301-05	1.843-15	1.175-09
80	100	1.031+03	6.226-03	9.927-13	1.772-06	82	121	5.147+02	4.549-04	2.529-14	1.610-08
80	101	1.028+03	4.519-02	9.198-12	1.636-05	82	123	5.136+02	1.167-01	4.616-12	2.931-06
80	112	9.594+02	1.365+04	1.346-06	2.235-00	82	132	2.512+02	8.112-01	4.602-12	1.429-06
80	120	5.054+02	2.238-02	8.571-13	7.498-07	82	133	2.508+02	4.187-00	3.949-11	1.225-05
80	121	5.044+02	5.877-01	2.241-11	1.957-05	82	134	2.502+02	5.166-04	6.788-15	2.100-09
80	122	5.041+02	1.438-01	7.045-12	6.147-06	82	135	2.417+02	3.456-00	3.026-11	9.041-06
80	123	5.033+02	4.612-01	1.251-11	1.090-05	82	140	9.763+01	1.004+01	8.605-12	1.039-06
80	133	2.484+02	1.470+01	9.710-11	4.174-05	82	146	8.744+01	5.678-02	3.905-14	4.222-09
80	134	2.478+02	3.676-03	3.383-14	1.451-08	82	147	8.743+01	6.252-01	7.164-13	7.743-08
80	135	2.394+02	1.010+01	6.195-11	2.567-05	82	148	8.739+01	3.036-04	4.865-16	5.256-11
80	147	8.712+01	5.756-00	4.679-12	7.056-07	82	149	8.686+01	1.298-00	1.468-12	1.577-07
80	148	8.708+01	9.628-03	1.095-14	1.650-09	82	154	8.491+01	5.630-05	8.519-17	8.943-12
80	149	8.656+01	2.451-00	1.967-12	2.947-07	83	94	1.401+03	1.638-00	1.447-09	5.016-04
80	154	8.462+01	9.592-06	1.030-17	1.508-12	83	110	1.309+03	2.178+01	1.679-08	5.435-03
80	155	8.462+01	3.877-04	5.351-16	7.838-11	83	111	1.251+03	2.344+03	1.650-06	5.104-01
80	157	8.461+01	5.151-07	7.108-19	1.041-13	83	114	7.187+02	1.071+02	2.487-08	4.420-03
81	82	4.323+04	1.944-02	9.075-09	2.910-01	83	132	2.632+02	8.167-01	2.545-11	1.656-06
81	83	4.867+03	3.288+01	3.892-08	1.405-01	83	140	9.940+01	4.232-00	1.880-11	4.622-07
81	94	1.088+03	4.758+01	8.445-09	6.816-03	83	146	8.886+01	1.893-01	6.723-13	1.477-08
81	95	1.077+03	2.635-00	7.639-10	6.104-04	84	85	8.233+04	2.104-02	6.412-08	1.305-00
81	99	1.050+03	3.564-02	9.821-12	7.651-06	84	87	6.261+03	1.766-02	3.114-10	4.820-04
81	110	1.032+03	4.601+02	7.342-08	5.619-02	84	93	2.851+03	8.233-01	3.010-09	2.122-03
81	111	9.951+02	5.911+03	8.776-07	6.479-01	84	118	7.638+02	4.731+01	1.241-08	2.344-03
81	112	9.749+02	6.872+02	1.632-07	1.180-01	84	129	4.494+02	5.477-00	4.975-10	5.528-05
81	113	8.885+02	5.834+03	2.302-07	1.517-01	84	131	4.255+02	4.634-03	3.774-13	3.972-08
81	114	6.262+02	1.271+02	7.470-09	3.470-03	84	143	9.644+01	3.131-00	1.310-11	3.123-07
81	119	5.667+02	6.917+01	1.110-09	4.666-04	84	145	9.587+01	3.946-02	1.631-13	3.867-09
81	123	5.075+02	1.207-01	7.767-12	2.924-06	85	86	7.735+03	1.781-02	5.327-11	3.057-04
81	132	2.497+02	5.097-00	4.765-11	8.826-06	85	87	6.776+03	3.706-02	2.551-10	1.282-03
81	133	2.494+02	5.409-01	8.405-12	1.555-06	85	89	5.703+03	1.519-01	1.234-09	5.221-03
81	135	2.403+02	5.759-01	8.311-12	1.482-06	85	91	4.948+03	1.854-02	1.134-10	4.161-04
81	140	9.741+01	4.522-00	6.432-12	4.648-07	85	93	2.954+03	4.356-01	5.697-10	1.248-03
81	141	9.658+01	1.072-02	4.999-15	3.581-10	85	102	1.967+03	1.043-06	1.008-15	1.471-09

Table 3. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic dipole (M1) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
85	115	8.365+02	1.419-00	2.480-10	1.539-04	88	124	7.262+02	1.874-01	1.152-11	1.862-05
85	116	8.305+02	8.643+01	1.489-08	9.176-03	88	125	7.254+02	8.022-02	6.328-12	1.021-05
85	118	7.709+02	1.820+01	1.622-09	9.276-04	88	126	7.240+02	8.471-06	6.658-16	1.073-09
85	128	4.544+02	5.054-01	5.214-12	1.757-06	88	127	7.230+02	2.285-02	2.189-12	3.522-06
85	129	4.519+02	2.023-00	6.191-11	2.075-05	88	137	2.493+02	6.773-05	4.909-16	2.723-10
85	130	4.370+02	1.760+01	8.397-10	2.722-04	88	138	2.490+02	6.536-04	6.076-15	3.368-09
85	131	4.278+02	6.656-03	1.826-13	5.794-08	88	139	2.484+02	7.674-01	5.519-12	3.051-06
85	136	2.395+02	5.820-06	8.339-17	1.481-11	88	151	8.966+01	8.484-02	7.952-14	1.587-08
85	142	9.661+01	2.405-00	1.122-12	8.040-08	88	152	8.964+01	5.421-04	6.532-16	1.303-10
85	143	9.655+01	4.843-01	6.769-13	4.848-08	88	153	8.958+01	4.390-01	4.107-13	8.187-08
85	144	9.620+01	9.395-00	2.173-11	1.550-06	89	90	3.557+05	1.959-05	5.202-10	2.288-01
85	145	9.598+01	1.561-03	2.156-15	1.535-10	89	91	3.735+04	1.730-04	3.618-11	1.671-03
85	150	8.834+01	7.219-04	1.408-15	9.226-11	89	92	2.406+04	3.021-01	3.669-08	1.091-00
86	87	5.463+04	8.941-02	1.200-07	1.621-00	89	93	6.126+03	9.903-00	3.343-08	2.532-01
86	93	4.778+03	9.311-00	9.560-08	1.129-01	89	102	3.002+03	4.730-04	6.391-13	2.372-06
86	118	8.563+02	3.532+03	1.165-06	2.466-01	89	103	2.983+03	6.928-03	1.294-11	4.771-05
86	129	4.799+02	8.521-00	8.826-10	1.047-04	89	106	2.869+03	1.583-03	2.734-12	9.696-06
86	131	4.528+02	6.641-00	6.124-10	6.856-05	89	115	9.802+02	1.204+03	1.735-07	2.103-01
86	143	9.778+01	1.019-00	4.380-12	1.059-07	89	116	9.720+02	5.624+03	7.967-07	9.574-01
86	145	9.718+01	4.135-00	1.756-11	4.221-07	89	117	9.590+02	1.160+03	2.240-07	2.656-01
87	89	3.601+04	2.800-01	9.074-08	2.424-00	89	118	8.914+02	2.132+03	1.524-07	1.679-01
87	91	1.834+04	8.541-02	7.174-09	9.758-02	89	124	7.307+02	1.480-02	1.659-12	1.499-06
87	93	5.236+03	2.130+01	8.754-08	3.400-01	89	129	4.907+02	2.561-00	5.548-11	3.366-05
87	102	2.771+03	8.012-04	1.537-12	3.160-06	89	130	4.733+02	1.617+01	5.429-10	3.176-04
87	115	9.543+02	8.143+02	1.853-07	1.312-01	89	131	4.625+02	1.023-00	1.968-11	1.125-05
87	116	9.465+02	9.839+02	2.202-07	1.546-01	89	136	2.500+02	1.945-03	1.822-14	5.632-09
87	118	8.699+02	7.273+03	8.251-07	5.325-01	89	137	2.498+02	1.069-05	1.400-16	4.325-11
87	128	4.870+02	1.117-01	1.324-12	4.783-07	89	139	2.489+02	6.541-02	8.504-13	2.617-07
87	129	4.841+02	1.839+01	6.461-10	2.320-04	89	143	9.822+01	1.383-01	1.200-13	1.457-08
87	130	4.671+02	2.489-00	1.357-10	4.702-05	89	144	9.785+01	3.825-00	5.491-12	6.643-07
87	131	4.566+02	9.566-00	2.990-10	1.013-04	89	145	9.762+01	6.789-03	5.820-15	7.025-10
87	136	2.482+02	1.665-03	2.563-14	4.720-09	89	150	8.973+01	7.331-03	8.849-15	9.818-10
87	142	9.801+01	4.857-01	2.332-13	1.695-08	89	151	8.973+01	4.854-03	8.203-15	9.100-10
87	143	9.795+01	3.990-00	5.740-12	4.170-07	89	153	8.964+01	4.058-02	6.844-14	7.585-09
87	144	9.759+01	7.401-04	1.761-15	1.275-10	90	91	4.174+04	1.168-01	2.178-08	1.573-00
87	145	9.736+01	3.361-00	4.775-12	3.449-07	90	92	2.580+04	1.477-01	1.473-08	6.580-01
87	150	8.951+01	6.915-03	1.385-14	9.193-10	90	102	3.027+03	8.020-04	7.871-13	4.124-06
88	90	8.844+04	2.124-02	1.937-08	3.813-00	90	103	3.008+03	1.609-03	2.182-12	1.136-05
88	92	1.997+04	3.735-02	1.737-09	7.722-02	90	106	2.892+03	4.756-03	5.963-12	2.985-05
88	103	2.909+03	3.686-02	3.638-11	2.355-04	90	107	2.880+03	4.105-04	6.563-13	3.272-06
88	104	2.847+03	4.762-09	7.072-18	4.481-11	90	108	2.840+03	3.578-03	5.561-12	2.733-05
88	106	2.800+03	1.063-02	9.717-12	6.056-05	90	115	9.830+02	1.334+04	1.380-06	2.349-00
88	107	2.789+03	1.755-03	2.047-12	1.270-05	90	116	9.747+02	2.008+01	2.043-09	3.447-03
88	108	2.751+03	8.425-05	9.560-14	5.853-07	90	117	9.617+02	1.879+01	2.605-09	4.336-03
88	109	2.738+03	1.082-03	1.487-12	9.057-06	90	124	7.322+02	2.201-01	1.769-11	2.242-05
88	117	9.513+02	1.271+04	1.342-06	2.840-00	90	125	7.314+02	1.348-01	1.390-11	1.759-05

Table 3. Transition energies ($\AA$), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic dipole (M1) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
90	126	7.300+02	1.046-01	1.075-11	1.358-05	92	137	2.525+02	6.173-05	5.899-16	2.578-10
90	130	4.739+02	2.002-00	4.815-11	3.950-05	92	138	2.522+02	2.071-03	2.539-14	1.108-08
90	136	2.501+02	5.290-02	3.545-13	1.535-07	92	139	2.515+02	3.069-01	2.910-12	1.267-06
90	137	2.500+02	5.064-04	4.745-15	2.054-09	92	144	9.825+01	3.641-00	3.763-12	6.401-07
90	138	2.497+02	2.516-03	3.025-14	1.307-08	92	150	9.007+01	4.662-03	4.050-15	6.314-10
90	139	2.491+02	3.694-04	3.435-15	1.481-09	92	151	9.006+01	2.766-02	3.364-14	5.244-09
90	144	9.788+01	5.347-01	5.486-13	9.295-08	92	152	9.005+01	1.207-03	1.886-15	2.940-10
90	150	8.976+01	2.808-01	2.423-13	3.764-08	92	153	8.998+01	1.695-01	2.057-13	3.204-08
90	151	8.975+01	2.522-05	3.045-17	4.730-12	93	102	5.886+03	1.831-04	1.585-12	6.920-06
90	152	8.974+01	1.103-03	1.711-15	2.658-10	93	115	1.167+03	1.356+02	4.614-08	3.994-02
90	153	8.967+01	8.108-05	9.774-17	1.517-11	93	116	1.155+03	3.918+03	1.307-06	1.120-00
91	92	6.757+04	1.281-02	1.228-08	1.026-00	93	118	1.043+03	1.280+03	2.089-07	1.617-01
91	93	7.328+03	1.013+01	4.893-08	4.433-01	93	128	5.370+02	9.328-03	1.344-13	5.355-08
91	102	3.264+03	5.616-03	8.971-12	3.620-05	93	129	5.335+02	3.096-00	1.321-10	5.227-05
91	103	3.242+03	1.237-03	2.728-12	1.093-05	93	130	5.129+02	1.237+01	8.128-10	3.092-04
91	106	3.107+03	4.860-05	9.849-14	3.784-07	93	131	5.002+02	1.242-00	4.659-11	1.729-05
91	115	1.007+03	3.489+03	5.301-07	6.597-01	93	136	2.606+02	2.025-03	3.436-14	6.642-09
91	116	9.980+02	1.840+03	2.747-07	3.390-01	93	142	9.988+01	2.403-01	1.198-13	8.874-09
91	117	9.843+02	3.818+02	7.765-08	9.450-02	93	143	9.982+01	2.900-01	4.333-13	3.208-08
91	118	9.132+02	6.321+03	4.741-07	5.354-01	93	144	9.944+01	3.111-00	7.687-12	5.671-07
91	124	7.453+02	1.149-01	1.340-11	1.234-05	93	145	9.920+01	2.066-01	3.048-13	2.243-08
91	129	4.973+02	1.526+01	3.394-10	2.087-04	93	150	9.107+01	1.977-02	4.097-14	2.768-09
91	130	4.793+02	2.232-00	7.690-11	4.557-05	94	95	1.070+05	1.503-02	4.300-08	3.413-00
91	131	4.682+02	6.420-00	1.266-10	7.330-05	94	99	3.012+04	8.742-03	1.982-09	4.429-02
91	136	2.516+02	1.071-02	1.017-13	3.163-08	94	110	1.989+04	3.561-03	2.112-10	3.117-03
91	137	2.515+02	1.063-03	1.412-14	4.389-09	94	111	1.165+04	1.557-03	3.167-11	2.736-04
91	139	2.506+02	3.135-02	4.131-13	1.280-07	94	112	9.374+03	9.911-02	2.176-09	1.513-02
91	143	9.848+01	3.101-00	2.705-12	3.294-07	94	113	4.845+03	1.316-01	1.543-10	5.546-04
91	144	9.811+01	5.388-01	7.776-13	9.432-08	94	114	1.475+03	7.562-02	2.467-11	2.700-05
91	145	9.788+01	1.207-00	1.040-12	1.259-07	94	119	1.182+03	2.739-02	1.914-12	1.679-06
91	150	8.995+01	6.457-02	7.833-14	8.711-09	94	123	9.512+02	5.747+03	1.299-06	9.168-01
91	151	8.994+01	1.658-03	2.815-15	3.131-10	94	132	3.241+02	2.596-02	4.087-13	9.826-08
91	153	8.986+01	2.912-02	4.936-14	5.484-09	94	133	3.235+02	5.363-00	1.403-10	3.366-05
92	102	3.430+03	1.589-03	2.002-12	1.188-05	94	135	3.085+02	1.366-00	3.246-11	7.428-06
92	103	3.405+03	1.827-02	3.175-11	1.871-04	94	140	1.070+02	5.651-02	9.698-14	7.697-09
92	106	3.257+03	1.568-02	2.495-11	1.406-04	94	141	1.060+02	1.749-05	9.818-18	7.719-13
92	107	3.242+03	6.547-05	1.326-13	7.443-07	94	146	9.488+01	5.669-03	7.651-15	5.385-10
92	108	3.191+03	1.576-03	3.092-12	1.708-05	94	147	9.485+01	3.228-01	7.258-13	5.107-08
92	115	1.022+03	4.486+01	5.016-09	8.873-03	94	149	9.419+01	5.387-01	1.194-12	8.344-08
92	116	1.013+03	5.735+03	6.301-07	1.105-00	95	98	5.886+04	5.504-02	4.003-08	2.913-00
92	117	9.989+02	5.200+03	7.779-07	1.345-00	95	99	4.192+04	4.980-03	1.312-09	6.802-02
92	124	7.536+02	3.314-01	2.821-11	3.680-05	95	100	4.054+04	2.271-03	7.832-10	3.925-02
92	125	7.527+02	4.864-01	5.312-11	6.921-05	95	110	2.444+04	3.724-02	2.000-09	6.042-02
92	126	7.513+02	7.709-02	8.387-12	1.091-05	95	111	1.307+04	1.200-03	1.844-11	2.979-04
92	130	4.828+02	1.442+01	3.598-10	3.006-04	95	112	1.027+04	3.203-03	5.069-11	6.439-04
92	136	2.526+02	3.689-04	2.520-15	1.102-09	95	114	1.496+03	2.817-02	5.668-12	1.048-05

Table 3. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic dipole (M1) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
95	120	9.676+02	5.007+02	9.839-08	1.177-01	98	155	9.212+01	4.313-04	7.055-16	1.125-10
95	121	9.636+02	4.283+03	8.347-07	9.945-01	98	157	9.211+01	7.944-05	1.299-16	2.071-11
95	123	9.598+02	3.020+03	4.171-07	4.949-01	99	100	1.223+06	1.516-06	4.760-10	7.199-01
95	132	3.251+02	2.288-02	2.175-13	8.739-08	99	110	5.857+04	3.692-05	1.139-11	8.251-04
95	133	3.245+02	3.869-00	6.109-11	2.451-05	99	111	1.899+04	1.071-05	3.475-13	8.160-06
95	134	3.235+02	1.218+01	2.676-10	1.070-04	99	112	1.361+04	2.068-03	5.743-11	9.663-04
95	135	3.093+02	9.147-01	1.312-11	5.019-06	99	114	1.551+03	2.403-04	5.201-14	9.973-08
95	140	1.071+02	7.745-03	7.991-15	1.058-09	99	120	9.904+02	1.021+03	2.102-07	2.574-01
95	146	9.496+01	4.208-04	3.413-16	4.008-11	99	121	9.863+02	2.596+03	5.300-07	6.463-01
95	147	9.494+01	3.928-02	5.307-14	6.229-09	99	123	9.823+02	4.476+03	6.474-07	7.862-01
95	148	9.489+01	2.184-01	4.127-13	4.842-08	99	132	3.276+02	3.148-02	3.039-13	1.231-07
95	149	9.428+01	1.926-01	2.566-13	2.991-08	99	133	3.270+02	5.419-00	8.689-11	3.513-05
95	154	9.198+01	4.019-04	7.136-16	8.115-11	99	134	3.260+02	6.982-00	1.557-10	6.278-05
96	97	7.057+06	3.686-08	2.252-10	4.323-00	99	135	3.116+02	1.465-00	2.133-11	8.220-06
96	101	3.948+04	4.221-02	8.070-09	8.666-01	99	140	1.074+02	1.985-04	2.058-16	2.732-11
96	122	9.654+02	1.193+04	1.364-06	3.581-00	99	146	9.518+01	9.624-04	7.842-16	9.228-11
96	155	9.200+01	4.677-04	4.856-16	1.215-10	99	147	9.515+01	6.949-02	9.433-14	1.110-08
96	156	9.199+01	3.024-04	3.836-16	9.598-11	99	148	9.511+01	3.658-02	6.945-14	8.167-09
96	157	9.199+01	1.993-03	2.069-15	5.176-10	99	149	9.449+01	4.185-01	5.602-13	6.544-08
97	98	7.143+04	6.224-04	3.702-10	5.885-02	99	154	9.218+01	2.252-06	4.016-18	4.577-13
97	100	4.612+04	5.152-02	1.278-08	1.312-00	100	101	2.852+05	3.242-04	5.083-09	2.510-00
97	101	3.970+04	6.634-03	1.568-09	1.385-01	100	112	1.376+04	8.424-04	1.709-11	4.070-04
97	120	9.704+02	1.234+04	1.355-06	2.926-00	100	120	9.912+02	4.617+03	6.801-07	1.167-00
97	121	9.664+02	2.682+01	2.921-09	6.283-03	100	121	9.871+02	9.452+02	1.381-07	2.359-01
97	122	9.655+02	9.219+01	1.288-08	2.769-02	100	122	9.862+02	2.861+02	5.363-08	9.155-02
97	134	3.238+02	1.245-01	1.522-12	1.097-06	100	123	9.830+02	5.034+03	5.210-07	8.865-01
97	148	9.492+01	3.627-03	3.810-15	8.049-10	100	133	3.271+02	6.514-00	7.464-11	4.227-05
97	154	9.200+01	1.306-03	1.289-15	2.640-10	100	134	3.261+02	1.661-00	2.647-11	1.494-05
97	155	9.201+01	1.932-04	2.451-16	5.019-11	100	135	3.117+02	1.691-00	1.760-11	9.493-06
97	156	9.199+01	2.015-04	3.124-16	6.396-11	100	147	9.516+01	7.849-02	7.611-14	1.254-08
97	157	9.199+01	7.361-05	9.338-17	1.912-11	100	148	9.511+01	1.308-02	1.774-14	2.920-09
98	99	1.457+05	2.669-03	6.067-09	1.530-00	100	149	9.450+01	4.568-01	4.368-13	7.145-08
98	100	1.302+05	3.948-09	1.003-14	2.260-06	100	154	9.219+01	6.792-05	8.654-17	1.381-11
98	101	8.939+04	8.310-03	1.280-08	1.980-00	100	155	9.219+01	7.594-04	1.244-15	1.985-10
98	112	1.245+04	4.701-02	7.798-10	1.680-02	100	157	9.217+01	1.228-04	2.010-16	3.207-11
98	120	9.837+02	6.642+02	9.636-08	1.641-01	101	120	9.947+02	1.315+02	1.517-08	3.357-02
98	121	9.797+02	6.240+03	8.979-07	1.523-00	101	121	9.905+02	5.066+03	5.795-07	1.278-00
98	122	9.788+02	1.579+03	2.915-07	4.939-01	101	122	9.896+02	5.457+03	8.012-07	1.765-00
98	123	9.757+02	9.238+02	9.417-08	1.590-01	101	134	3.265+02	1.619+01	2.012-10	1.462-04
98	133	3.263+02	1.486-00	1.694-11	9.568-06	101	148	9.515+01	1.442-01	1.522-13	3.223-08
98	134	3.253+02	1.960+01	3.109-10	1.750-04	101	154	9.222+01	1.839-07	1.823-19	3.742-14
98	135	3.110+02	1.883-01	1.950-12	1.050-06	101	155	9.222+01	1.244-06	1.585-18	3.254-13
98	147	9.509+01	2.102-02	2.035-14	3.350-09	101	156	9.220+01	1.966-04	3.062-16	6.283-11
98	148	9.505+01	1.692-01	2.291-13	3.769-08	101	157	9.220+01	3.380-05	4.308-17	8.839-12
98	149	9.443+01	7.183-02	6.859-14	1.121-08	102	103	4.682+05	1.509-04	6.942-09	4.018-00
98	154	9.212+01	7.156-06	9.105-18	1.452-12	102	106	6.467+04	1.405-02	1.233-08	9.860-01

Table 3. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic dipole (M1) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
102	115	1.456+03	1.764-02	5.602-12	1.008-05	105	127	9.708+02	1.147+04	1.372-06	4.280-00
102	116	1.438+03	5.628-03	1.743-12	3.098-06	106	107	6.957+05	3.634-05	3.390-09	4.082-00
102	117	1.409+03	8.303-02	3.461-11	6.031-05	106	108	1.564+05	9.209-04	4.340-09	1.175-00
102	118	1.268+03	3.656-02	5.288-12	8.289-06	106	115	1.489+03	3.299-01	7.832-11	2.019-04
102	124	9.658+02	6.941+03	1.359-06	1.623-00	106	116	1.470+03	7.261-02	1.681-11	4.277-05
102	129	5.866+02	1.281-04	3.966-15	2.877-09	106	117	1.441+03	2.588-01	8.052-11	2.008-04
102	130	5.618+02	4.442-06	2.102-16	1.460-10	106	124	9.805+02	6.666+03	9.607-07	1.630-00
102	131	5.467+02	6.344-05	1.705-15	1.153-09	106	125	9.789+02	2.107+02	3.892-08	6.594-02
102	136	2.727+02	1.421-02	1.584-13	5.339-08	106	126	9.765+02	2.068+03	3.801-07	6.424-01
102	137	2.725+02	2.413+01	3.761-10	1.267-04	106	130	5.668+02	1.073-04	3.692-15	3.622-09
102	139	2.714+02	1.490+01	2.302-10	7.725-05	106	136	2.738+02	5.839-02	4.688-13	2.222-07
102	143	1.015+02	2.344-05	2.174-17	2.729-12	106	137	2.737+02	2.341+01	2.628-10	1.245-04
102	144	1.012+02	1.786-06	2.739-18	3.426-13	106	138	2.733+02	2.088-00	3.007-11	1.423-05
102	145	1.009+02	5.389-06	4.936-18	6.158-13	106	139	2.725+02	1.435+01	1.598-10	7.537-05
102	150	9.250+01	9.106-03	1.168-14	1.336-09	106	144	1.013+02	1.998-05	2.196-17	3.851-12
102	151	9.249+01	2.504-03	4.497-15	5.142-10	106	150	9.263+01	3.510-03	3.226-15	5.172-10
102	153	9.240+01	7.228-04	1.295-15	1.480-10	106	151	9.262+01	6.096-05	7.840-17	1.257-11
103	106	7.503+04	2.317-04	1.955-10	2.539-02	106	152	9.261+01	1.954-03	3.230-15	5.178-10
103	107	6.773+04	1.833-02	1.620-08	1.900-00	106	153	9.254+01	2.780-04	3.569-16	5.717-11
103	108	5.070+04	6.872-05	3.405-11	2.989-03	107	108	2.017+05	1.428-07	8.709-13	3.909-04
103	115	1.460+03	8.782-02	2.005-11	5.067-05	107	109	1.486+05	1.877-03	7.593-09	2.511-00
103	116	1.442+03	1.612-01	3.590-11	8.960-05	107	117	1.444+03	3.716-02	9.031-12	2.901-05
103	117	1.414+03	9.693-02	2.904-11	7.105-05	107	124	9.819+02	4.821+02	5.419-08	1.184-01
103	124	9.678+02	5.278+02	7.412-08	1.242-01	107	125	9.803+02	6.851+03	9.870-07	2.153-00
103	125	9.663+02	7.117+03	1.281-06	2.143-00	107	126	9.779+02	4.355+01	6.243-09	1.359-02
103	126	9.640+02	2.696+01	4.828-09	8.056-03	107	127	9.760+02	1.905+03	3.325-07	7.221-01
103	130	5.625+02	5.658-04	1.917-14	1.867-08	107	137	2.738+02	1.986-00	1.736-11	1.058-05
103	136	2.728+02	1.341-04	1.069-15	5.047-10	107	138	2.734+02	3.877+01	4.346-10	2.645-04
103	137	2.727+02	2.097-00	2.338-11	1.103-05	107	139	2.726+02	6.550-01	5.677-12	3.444-06
103	138	2.723+02	4.052+01	5.793-10	2.731-04	107	151	9.264+01	2.205-03	2.206-15	4.548-10
103	139	2.715+02	9.182-01	1.015-11	4.770-06	107	152	9.262+01	2.188-03	2.813-15	5.799-10
103	144	1.012+02	2.592-04	2.841-16	4.976-11	107	153	9.255+01	3.726-03	3.721-15	7.664-10
103	150	9.252+01	5.736-03	5.258-15	8.420-10	108	109	5.642+05	5.114-05	2.984-09	3.747-00
103	151	9.251+01	6.598-03	8.466-15	1.356-09	108	117	1.454+03	5.316-02	1.311-11	4.241-05
103	152	9.250+01	1.701-03	2.806-15	4.492-10	108	124	9.867+02	4.625+03	5.250-07	1.153-00
103	153	9.242+01	5.745-03	7.357-15	1.177-09	108	125	9.851+02	1.208+02	1.758-08	3.854-02
104	105	5.465+05	6.475-05	3.426-09	5.094-00	108	126	9.827+02	5.603+03	8.111-07	1.774-00
104	107	1.372+05	2.498-05	5.764-11	2.150-02	108	127	9.808+02	1.967+02	3.467-08	7.568-02
104	108	8.164+04	7.924-03	6.479-09	1.439-00	108	137	2.741+02	1.690+01	1.481-10	9.037-05
104	109	7.132+04	3.508-04	2.675-10	5.190-02	108	138	2.738+02	1.798-00	2.021-11	1.231-05
104	125	9.734+02	1.353+02	1.572-08	4.163-02	108	139	2.730+02	1.019+01	8.858-11	5.382-05
104	126	9.710+02	1.158+04	1.339-06	3.536-00	108	151	9.268+01	4.558-04	4.566-16	9.417-11
104	127	9.691+02	1.228+02	1.729-08	4.559-02	108	152	9.266+01	9.505-06	1.224-17	2.523-12
104	138	2.729+02	2.294-02	2.096-13	1.555-07	108	153	9.259+01	5.640-04	5.639-16	1.162-10
104	152	9.256+01	1.104-04	1.160-16	2.919-11	109	125	9.868+02	4.800+03	5.734-07	1.539-00
105	109	8.203+04	6.313-03	5.388-09	1.421-00	109	126	9.844+02	3.683-00	4.377-10	1.172-03

Table 3. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic dipole (M1) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
109	127	9.825+02	5.630+03	8.147-07	2.177-00	113	140	1.094+02	3.526-00	1.898-11	5.136-07
109	138	2.740+02	2.848+01	2.622-10	1.954-04	113	146	9.677+01	1.604-01	6.755-13	1.617-08
109	152	9.268+01	4.919-04	5.182-16	1.306-10	114	119	5.960+03	4.054-05	7.197-14	3.182-07
110	111	2.810+04	2.144-01	2.538-08	5.292-01	114	123	2.678+03	1.711-05	3.068-14	6.095-08
110	112	1.773+04	1.295-00	1.017-07	1.338-00	114	132	4.153+02	2.255-02	5.832-13	1.797-07
110	113	6.405+03	5.440-01	1.115-09	5.299-03	114	133	4.144+02	3.173-03	1.362-13	4.186-08
110	114	1.593+03	6.114-00	2.327-09	2.750-03	114	135	3.900+02	1.345-04	5.113-15	1.479-09
110	119	1.257+03	2.271-01	1.794-11	1.673-05	114	140	1.154+02	3.449-00	6.880-12	5.888-07
110	123	9.990+02	1.531+02	3.819-08	2.830-02	114	141	1.142+02	3.620-00	2.359-12	1.998-07
110	132	3.294+02	1.722-01	2.801-12	6.846-07	114	146	1.014+02	2.507-03	3.865-15	2.907-10
110	133	3.289+02	7.264-00	1.963-10	4.790-05	114	147	1.014+02	1.295-03	3.324-15	2.500-10
110	135	3.133+02	2.495-00	6.120-11	1.422-05	114	149	1.006+02	8.043-03	2.034-14	1.518-09
110	140	1.076+02	2.981-00	5.171-12	4.127-07	115	116	1.159+05	5.873-04	1.182-09	1.694-01
110	141	1.066+02	2.804-05	1.591-17	1.257-12	115	117	4.438+04	1.172-01	4.845-08	2.658-00
110	146	9.533+01	1.088-01	1.483-13	1.049-08	115	118	9.839+03	3.638-01	3.167-09	3.853-02
110	147	9.531+01	3.208-00	7.281-12	5.148-07	115	124	2.871+03	1.386-04	2.398-13	8.509-07
110	149	9.464+01	4.541-01	1.016-12	7.135-08	115	129	9.827+02	6.768-01	5.879-11	7.143-05
111	112	4.802+04	5.398-02	3.110-08	1.108-00	115	130	9.150+02	3.147-01	3.950-11	4.469-05
111	113	8.295+03	2.541+01	8.737-08	5.376-01	115	131	8.755+02	3.501-04	2.414-14	2.613-08
111	114	1.689+03	1.716+01	7.337-09	9.193-03	115	136	3.355+02	1.453-03	2.452-14	1.017-08
111	119	1.316+03	1.957+01	1.694-09	1.653-03	115	137	3.353+02	4.617-02	1.090-12	4.516-07
111	123	1.036+03	1.101+01	2.952-09	2.268-03	115	139	3.336+02	2.681-01	6.262-12	2.582-06
111	132	3.334+02	4.982-01	8.299-12	2.052-06	115	143	1.092+02	5.370-01	5.755-13	7.766-08
111	133	3.328+02	1.256-01	3.476-12	8.580-07	115	144	1.087+02	4.085-01	7.237-13	9.726-08
111	135	3.168+02	1.942-00	4.871-11	1.145-05	115	145	1.084+02	2.810-03	2.971-15	3.982-10
111	140	1.080+02	5.916-00	1.034-11	8.283-07	115	150	9.878+01	1.254-02	1.834-14	2.240-09
111	141	1.070+02	2.673-02	1.528-14	1.213-09	115	151	9.877+01	1.548-01	3.169-13	3.870-08
111	146	9.566+01	6.799-02	9.327-14	6.619-09	115	153	9.867+01	2.056-01	4.200-13	5.124-08
111	147	9.563+01	1.467-02	3.353-14	2.379-09	116	117	7.192+04	9.317-03	1.012-08	8.994-01
111	149	9.496+01	8.656-01	1.950-12	1.374-07	116	118	1.075+04	1.118+01	1.162-07	1.545-00
112	114	1.751+03	4.242-00	1.169-09	2.531-03	116	124	2.944+03	5.436-04	9.886-13	3.598-06
112	120	1.068+03	2.348-00	5.624-10	7.427-04	116	129	9.911+02	3.022-02	2.670-12	3.272-06
112	121	1.063+03	1.117+01	2.652-09	3.487-03	116	130	9.223+02	2.430-00	3.099-10	3.534-04
112	123	1.059+03	1.434+01	2.409-09	3.153-03	116	131	8.821+02	7.918-00	5.542-10	6.044-04
112	132	3.357+02	1.471-02	1.490-13	6.186-08	116	136	3.365+02	1.417-04	2.405-15	1.000-09
112	133	3.351+02	4.928-02	8.296-13	3.437-07	116	137	3.363+02	1.699-03	4.032-14	1.676-08
112	134	3.340+02	9.366-00	2.193-10	9.056-05	116	139	3.345+02	9.586-02	2.252-12	9.313-07
112	135	3.189+02	1.319-00	2.012-11	7.935-06	116	143	1.093+02	8.099-01	8.697-13	1.175-07
112	140	1.082+02	2.231-00	2.351-12	3.145-07	116	144	1.088+02	2.333-00	4.141-12	5.570-07
112	146	9.585+01	3.063-01	2.531-13	2.999-08	116	145	1.085+02	9.149-00	9.692-12	1.300-06
112	147	9.582+01	1.216-03	1.674-15	1.983-10	116	150	9.886+01	3.990-03	5.847-15	7.146-10
112	148	9.578+01	3.538-00	6.812-12	8.066-07	116	151	9.885+01	1.225-03	2.513-15	3.072-10
112	149	9.515+01	4.978-01	6.757-13	7.949-08	116	153	9.875+01	9.311-02	1.906-13	2.327-08
112	154	9.281+01	2.230-04	4.032-16	4.626-11	117	124	3.069+03	5.584-03	7.886-12	4.190-05
113	114	2.121+03	4.497-00	9.098-09	4.771-03	117	125	3.054+03	2.174-02	3.909-11	2.066-04
113	132	3.473+02	3.753-01	2.036-11	1.748-06	117	126	3.031+03	2.777-03	4.916-12	2.579-05

Table 3. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic dipole (M1) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
117	130	9.343+02	7.099-01	6.636-11	1.073-04	122	134	4.872+02	1.855-00	5.133-11	5.566-05
117	136	3.381+02	3.153-04	3.860-15	2.259-09	122	148	1.053+02	3.723-02	4.811-14	1.127-08
117	137	3.378+02	1.064-03	1.820-14	1.064-08	122	154	1.017+02	1.331-04	1.605-16	3.632-11
117	138	3.373+02	2.474-02	5.427-13	3.168-07	122	155	1.017+02	3.183-05	4.936-17	1.117-11
117	139	3.361+02	9.818-02	1.663-12	9.672-07	122	156	1.017+02	4.905-04	9.292-16	2.103-10
117	144	1.090+02	1.006-00	1.279-12	2.412-07	122	157	1.017+02	6.829-04	1.058-15	2.395-10
117	150	9.900+01	2.432-04	2.552-16	4.373-11	123	132	4.915+02	1.556+01	3.382-10	2.055-04
117	151	9.899+01	7.075-07	1.039-18	1.781-13	123	133	4.903+02	4.947-00	1.783-10	1.081-04
117	152	9.897+01	1.669-01	3.151-13	5.398-08	123	134	4.880+02	2.130-01	1.064-11	6.422-06
117	153	9.889+01	9.523-02	1.396-13	2.390-08	123	135	4.565+02	1.296-01	4.048-12	2.285-06
118	128	1.107+03	7.371-00	4.511-10	3.703-04	123	140	1.206+02	4.577-05	5.983-17	8.917-12
118	129	1.092+03	3.613-00	6.456-10	5.228-04	123	146	1.054+02	2.483-01	2.481-13	3.233-08
118	130	1.009+03	4.715-02	1.199-11	8.974-06	123	147	1.054+02	1.085-01	1.805-13	2.351-08
118	131	9.610+02	6.754-02	9.351-12	6.666-06	123	148	1.053+02	8.905-03	2.073-14	2.698-09
118	136	3.474+02	1.110-03	3.346-14	8.622-09	123	149	1.046+02	1.355-01	2.220-13	2.870-08
118	142	1.104+02	9.883-00	6.026-12	4.937-07	123	154	1.017+02	3.650-06	7.928-18	9.971-13
118	143	1.104+02	4.477-00	8.178-12	6.696-07	124	125	6.221+05	4.249-05	3.169-09	3.412-00
118	144	1.099+02	4.089-01	1.235-12	1.007-07	124	126	2.426+05	1.517-04	1.722-09	7.231-01
118	145	1.096+02	5.717-01	1.030-12	8.376-08	124	130	1.343+03	1.772-06	3.423-16	7.958-10
118	150	9.978+01	1.417-02	3.524-14	2.608-09	124	136	3.799+02	3.520+01	5.442-10	3.579-04
119	132	4.464+02	3.952-03	3.542-13	3.910-08	124	137	3.796+02	1.030+01	2.225-10	1.462-04
119	140	1.176+02	1.873-00	1.166-11	3.391-07	124	138	3.790+02	2.542-01	7.037-12	4.616-06
119	146	1.032+02	2.666-03	1.276-14	3.255-10	124	139	3.774+02	1.116-00	2.383-11	1.557-05
120	121	2.376+05	1.614-05	1.366-10	5.617-02	124	144	1.130+02	1.994-05	2.726-17	5.331-12
120	122	1.941+05	1.613-03	1.171-08	3.935-00	124	150	1.023+02	7.233-04	8.105-16	1.435-10
120	123	1.192+05	5.478-04	8.342-10	1.722-01	124	151	1.023+02	6.295-03	9.874-15	1.748-09
120	133	4.883+02	1.300-00	3.320-11	2.806-05	124	152	1.023+02	3.455-03	6.965-15	1.233-09
120	134	4.860+02	2.253-01	7.978-12	6.711-06	124	153	1.022+02	8.148-03	1.275-14	2.256-09
120	135	4.547+02	8.753-02	1.938-12	1.525-06	125	126	3.978+05	1.024-05	2.429-10	2.151-01
120	147	1.053+02	4.328-02	5.136-14	9.358-09	125	127	2.226+05	6.922-05	6.285-10	3.113-01
120	148	1.052+02	1.159-02	1.924-14	3.504-09	125	137	3.799+02	1.024+01	1.723-10	1.457-04
120	149	1.044+02	8.896-02	1.039-13	1.879-08	125	138	3.792+02	1.038+01	2.238-10	1.889-04
120	154	1.016+02	1.745-04	2.703-16	4.756-11	125	139	3.776+02	2.264+01	3.764-10	3.164-04
120	155	1.016+02	8.836-04	1.760-15	3.096-10	125	151	1.023+02	4.202-03	5.128-15	1.167-09
120	157	1.016+02	8.142-04	1.621-15	2.851-10	125	152	1.023+02	1.811-02	2.840-14	6.465-09
121	122	1.060+06	2.081-06	4.504-10	8.261-01	125	153	1.022+02	6.832-04	8.320-16	1.892-10
121	123	2.394+05	1.109-03	6.808-09	2.821-00	126	127	5.054+05	1.061-04	4.968-09	5.588-00
121	133	4.893+02	5.451-00	1.397-10	1.183-04	126	137	3.802+02	1.822-00	3.071-11	2.599-05
121	134	4.870+02	4.904-00	1.744-10	1.470-04	126	138	3.796+02	3.171-04	6.851-15	5.787-09
121	135	4.556+02	2.543-00	5.652-11	4.457-05	126	139	3.780+02	2.838-00	4.729-11	3.978-05
121	147	1.053+02	1.027-01	1.220-13	2.224-08	126	151	1.023+02	1.738-05	2.122-17	4.832-12
121	148	1.053+02	1.109-01	1.842-13	3.356-08	126	152	1.023+02	7.708-05	1.210-16	2.754-11
121	149	1.045+02	8.456-01	9.888-13	1.789-07	126	153	1.022+02	5.187-04	6.320-16	1.438-10
121	154	1.017+02	4.203-06	6.516-18	1.147-12	127	138	3.799+02	4.257-00	7.535-11	7.786-05
121	155	1.017+02	7.440-04	1.483-15	2.610-10	127	152	1.023+02	1.301-04	1.671-16	4.652-11
121	157	1.017+02	2.208-04	4.399-16	7.740-11	128	129	8.123+04	2.896-02	8.596-08	1.727-00

Table 3. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic dipole (M1) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
128	131	7.302+03	6.109-00	1.465-07	2.645-01	134	154	1.285+02	1.275-02	3.157-14	7.022-09
128	143	1.226+02	1.281+01	8.663-11	2.626-06	134	155	1.285+02	1.434-01	4.565-13	1.016-07
128	145	1.217+02	1.686+02	1.123-09	3.379-05	134	157	1.285+02	8.823-04	2.808-15	6.244-10
129	130	1.329+04	4.974-00	2.195-07	2.164-00	135	140	1.638+02	5.251-05	1.268-16	2.567-11
129	131	8.023+03	3.015-00	2.910-08	1.732-01	135	146	1.370+02	1.644+01	2.776-11	4.703-06
129	136	5.095+02	2.512-07	1.629-17	6.157-12	135	147	1.370+02	3.047-00	8.571-12	1.451-06
129	142	1.229+02	2.138+01	1.614-11	1.471-06	135	148	1.369+02	1.199-00	4.715-12	7.979-07
129	143	1.228+02	1.374-00	3.105-12	2.829-07	135	149	1.356+02	5.134-00	1.415-11	2.373-06
129	144	1.222+02	2.588+02	9.660-10	8.759-05	135	154	1.309+02	8.771-02	3.154-13	5.105-08
129	145	1.219+02	8.643+01	1.924-10	1.739-05	136	137	4.763+05	2.280-04	1.086-08	6.394-00
129	150	1.098+02	9.330-03	2.812-14	2.290-09	136	139	5.713+04	5.029-03	3.445-09	2.434-01
130	131	2.024+04	3.509-01	1.293-08	3.236-01	136	143	1.618+02	1.961-04	4.618-16	9.236-11
130	136	5.298+02	1.596-04	6.717-15	4.400-09	136	144	1.608+02	7.367-04	2.856-15	5.678-10
130	137	5.292+02	9.107-04	5.353-14	3.503-08	136	145	1.602+02	2.130-04	4.917-16	9.737-11
130	139	5.249+02	7.033-05	4.067-15	2.640-09	136	150	1.400+02	2.514-00	7.386-12	1.278-06
130	143	1.239+02	4.589+02	6.340-10	9.715-05	136	151	1.400+02	2.797-01	1.150-12	1.991-07
130	144	1.234+02	6.723-00	1.534-11	2.339-06	136	153	1.398+02	2.636-01	1.081-12	1.867-07
130	145	1.230+02	4.335+01	5.898-11	8.968-06	137	138	2.244+05	1.720-03	1.669-08	6.483-00
130	150	1.107+02	3.011-02	5.534-14	7.576-09	137	139	6.492+04	3.049-04	1.926-10	2.165-02
130	151	1.107+02	6.173-02	1.588-13	2.174-08	137	144	1.609+02	6.150-06	1.704-17	4.745-12
130	153	1.106+02	3.164-02	8.122-14	1.110-08	137	150	1.400+02	4.666-02	9.798-14	2.375-08
131	136	5.440+02	3.199-04	2.366-14	9.548-09	137	151	1.400+02	3.520-00	1.035-11	2.507-06
131	142	1.248+02	5.680+02	4.421-10	4.093-05	137	152	1.400+02	6.222-01	2.350-12	5.693-07
131	143	1.247+02	1.072+02	2.498-10	2.311-05	137	153	1.398+02	1.321-02	3.871-14	9.367-09
131	144	1.241+02	9.656-00	3.717-11	3.422-06	138	139	9.134+04	1.195-03	1.163-09	2.364-01
131	145	1.237+02	4.897-00	1.124-11	1.032-06	138	151	1.401+02	9.320-01	2.133-12	6.651-07
131	150	1.113+02	9.835-02	3.046-13	2.516-08	138	152	1.401+02	6.168-00	1.814-11	5.655-06
132	133	1.937+05	3.313-03	3.107-08	4.466-00	138	153	1.399+02	1.631-00	3.722-12	1.159-06
132	135	6.396+03	2.978-01	3.044-09	1.444-02	139	144	1.613+02	6.622-05	1.844-16	5.147-11
132	140	1.597+02	6.620-03	2.532-14	3.000-09	139	150	1.403+02	2.590-00	5.462-12	1.327-06
132	141	1.575+02	4.898-04	6.071-16	7.093-11	139	151	1.403+02	5.009-01	1.478-12	3.591-07
132	146	1.341+02	2.118-00	5.716-12	5.688-07	139	152	1.403+02	7.834-03	2.971-14	7.215-09
132	147	1.341+02	2.713-00	1.219-11	1.213-06	139	153	1.401+02	4.789-00	1.409-11	3.418-06
132	149	1.328+02	4.328-00	1.907-11	1.878-06	140	141	1.130+04	2.360-04	1.505-12	1.262-05
133	134	1.028+05	1.641-02	3.643-08	4.633-00	140	146	8.381+02	1.436-03	1.513-13	9.405-08
133	135	6.615+03	5.593-02	3.668-10	3.000-03	140	147	8.362+02	2.299-06	4.017-16	2.492-10
133	140	1.599+02	6.673-03	1.534-14	3.031-09	140	149	7.875+02	9.921-05	1.537-14	8.982-09
133	146	1.342+02	2.863-00	4.641-12	7.703-07	141	146	9.053+02	9.855-05	3.632-14	8.131-09
133	147	1.342+02	4.342-00	1.172-11	1.945-06	142	143	1.602+05	3.773-03	4.358-08	1.727-00
133	148	1.341+02	5.918-00	2.234-11	3.704-06	142	145	1.462+04	7.606-01	7.317-08	2.646-01
133	149	1.329+02	2.671-01	7.070-13	1.161-07	143	144	2.648+04	6.290-01	1.102-07	2.165-00
133	154	1.284+02	5.573-02	1.927-13	3.058-08	143	145	1.609+04	3.738-01	1.451-08	1.732-01
134	135	7.069+03	1.983-01	1.061-09	1.299-02	143	150	1.039+03	1.474-06	3.976-16	3.065-10
134	147	1.344+02	7.920-00	1.531-11	3.562-06	144	145	4.103+04	4.214-02	6.379-09	3.236-01
134	148	1.343+02	7.929-00	2.143-11	4.982-06	144	150	1.081+03	4.215-05	7.391-15	9.882-09
134	149	1.331+02	1.054+01	1.998-11	4.602-06	144	151	1.080+03	1.048-04	2.567-14	3.429-08

Table 3. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic dipole (M1) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
144	153	1.068+03	8.886-06	2.129-15	2.813-09	149	154	3.775+03	1.092-07	3.266-16	1.524-09
145	150	1.111+03	2.634-05	8.120-15	6.690-09	150	151	1.288+06	1.161-05	4.042-09	6.435-00
146	147	3.732+05	4.634-04	1.612-08	4.463-00	150	153	8.946+04	1.084-03	1.820-09	2.013-01
146	149	1.305+04	4.000-02	1.702-09	1.648-02	151	152	5.130+05	1.449-04	7.349-09	6.525-00
147	148	1.978+05	2.307-03	1.894-08	4.631-00	151	153	9.614+04	7.876-05	1.091-10	1.816-02
147	149	1.352+04	7.435-03	2.038-10	3.408-03	152	153	1.183+05	4.522-04	7.379-10	1.943-01
147	154	2.951+03	4.132-08	7.552-17	2.755-10	155	154	5.885+06	1.001-07	4.044-10	5.296-00
148	149	1.452+04	2.614-02	5.898-10	1.482-02	154	157	4.817+05	9.158-05	4.095-09	3.414-00
148	154	2.996+03	1.658-06	2.231-15	1.157-08	155	156	5.410+05	8.303-05	4.454-09	5.362-00
148	155	2.997+03	1.449-06	2.510-15	1.302-08	155	157	4.452+05	3.651-06	1.085-10	1.075-01
148	157	2.977+03	1.638-07	2.799-16	1.443-09	156	157	2.514+06	6.407-07	4.969-10	3.398-00

Table 4. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric quadrupole (E2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
1	7	1.637+01	5.146+08	1.034-04	2.702-03	2	53	4.399+01	1.860+08	9.713-05	2.463-01
1	10	1.627+01	5.574+08	1.106-04	2.840-03	2	54	4.396+01	1.438+08	4.166-05	1.054-01
1	14	1.604+01	6.715+08	1.295-04	3.182-03	2	55	4.394+01	8.446+07	3.423-05	8.651-02
1	35	1.322+01	1.866+07	2.445-06	3.364-05	2	57	4.385+01	3.962+07	1.142-05	2.866-02
1	37	1.315+01	1.091+10	1.414-03	1.912-02	2	58	4.379+01	9.800+07	3.944-05	9.860-02
1	43	1.254+01	1.980+08	2.334-05	2.744-04	2	59	4.338+01	3.600+06	6.093-07	1.482-03
1	46	1.252+01	1.914+08	2.250-05	2.631-04	2	68	4.207+01	2.937+04	7.796-09	1.729-05
1	50	1.237+01	2.316+08	2.657-05	2.996-04	2	69	4.204+01	8.076+05	2.140-07	4.734-04
1	63	1.224+01	7.434+08	8.343-05	9.104-04	2	70	4.199+01	2.450+05	9.067-08	2.000-04
1	65	1.223+01	1.856+09	2.082-04	2.269-03	2	71	4.168+01	2.374+05	3.709-08	7.995-05
1	75	1.208+01	1.274+09	1.394-04	1.464-03	2	76	3.447+01	4.289+04	7.641-09	9.323-06
1	79	1.138+01	3.824+08	3.710-05	3.254-04	2	77	3.444+01	3.285+04	3.505-09	4.265-06
1	82	1.137+01	3.463+08	3.355-05	2.936-04	2	84	3.330+01	1.204+06	4.003-08	4.402-05
1	95	1.125+01	3.657+08	3.471-05	2.946-04	2	85	3.329+01	6.734+05	6.712-08	7.373-05
1	99	1.125+01	1.102+09	1.045-04	8.861-04	2	86	3.314+01	9.166+07	3.019-06	3.274-03
1	112	1.124+01	3.705+08	3.509-05	2.968-04	2	87	3.312+01	9.011+07	8.894-06	9.626-03
1	123	1.112+01	7.065+08	6.551-05	5.368-04	2	88	3.310+01	9.148+07	2.705-05	2.922-02
1	133	1.088+01	8.249+06	7.313-07	5.603-06	2	89	3.309+01	7.232+07	1.187-05	1.282-02
1	135	1.086+01	2.988+09	2.640-04	2.013-03	2	90	3.309+01	4.142+07	9.520-06	1.027-02
1	147	1.006+01	8.031+06	6.093-07	3.695-06	2	91	3.306+01	1.799+07	2.949-06	3.175-03
1	149	1.005+01	2.417+09	1.831-04	1.108-03	2	92	3.305+01	4.825+07	1.106-05	1.189-02
2	3	6.342+03	4.093-05	1.481-13	1.125-03	2	93	3.292+01	9.798+05	9.549-08	1.014-04
2	4	9.820+02	1.291-00	3.732-11	1.052-03	2	102	3.273+01	4.014+03	6.447-10	6.733-07
2	5	8.942+02	8.318-01	5.983-11	1.274-03	2	103	3.273+01	1.123+04	2.525-09	2.637-06
2	16	1.626+02	3.445+05	2.731-07	3.495-02	2	106	3.272+01	3.768+03	8.464-10	8.827-07
2	17	1.605+02	3.428+05	7.948-07	9.793-02	2	107	3.272+01	2.758+04	7.964-09	8.304-06
2	18	1.568+02	2.897+05	1.067-06	1.224-01	2	108	3.271+01	2.084+02	6.015-11	6.269-08
2	19	1.566+02	4.100+05	2.711-06	3.099-01	2	115	3.201+01	9.243+02	1.420-10	1.387-07
2	20	1.549+02	1.939+05	9.770-07	1.082-01	2	116	3.200+01	5.836+04	8.961-09	8.748-06
2	21	1.516+02	1.179+05	4.061-07	4.213-02	2	117	3.199+01	1.624+04	3.489-09	3.402-06
2	22	1.496+02	2.738+05	1.286-06	1.282-01	2	118	3.191+01	2.712+04	2.484-09	2.403-06
2	23	1.414+02	3.936+04	7.083-08	5.970-03	2	124	3.166+01	6.088+03	1.281-09	1.211-06
2	24	1.339+02	3.580+03	9.619-09	6.872-04	2	125	3.166+01	4.183+04	1.131-08	1.069-05
2	25	1.327+02	3.860+04	1.019-07	7.096-03	2	126	3.166+01	2.765+02	7.476-11	7.062-08
2	26	1.319+02	1.393+04	5.088-08	3.479-03	2	128	3.101+01	6.144+04	1.772-09	1.574-06
2	27	1.221+02	4.907+03	6.575-09	3.560-04	2	129	3.100+01	3.784+04	3.272-09	2.903-06
2	30	7.311+01	6.804+02	1.091-10	1.269-06	2	130	3.093+01	1.604+04	2.300-09	2.027-06
2	31	7.292+01	3.788+02	1.812-10	2.092-06	2	131	3.088+01	4.102+03	3.519-10	3.087-07
2	32	7.194+01	3.117+01	2.419-11	2.682-07	2	136	2.923+01	1.064+05	1.362-08	1.012-05
2	33	7.114+01	2.651-00	1.207-12	1.294-08	2	137	2.922+01	5.130+05	9.196-08	6.834-05
2	38	4.929+01	2.656+04	9.673-09	3.449-05	2	138	2.922+01	1.594+06	3.673-07	2.728-04
2	39	4.916+01	2.135+04	4.641-09	1.642-05	2	139	2.921+01	1.934+04	3.464-09	2.571-06
2	41	4.692+01	1.501+05	9.909-09	3.049-05	2	142	2.476+01	7.139+05	1.312-08	5.929-06
2	42	4.687+01	7.449+04	1.472-08	4.511-05	2	143	2.475+01	4.631+05	2.552-08	1.153-05
2	51	4.415+01	1.891+08	1.105-05	2.831-02	2	144	2.473+01	2.621+05	2.403-08	1.082-05
2	52	4.408+01	1.832+08	3.203-05	8.167-02	2	145	2.472+01	7.570+04	4.159-09	1.870-06

Table 4. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric quadrupole (E2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
2	150	2.418+01	2.582+03	2.263-10	9.522-08	3	118	3.207+01	3.764+04	5.804-09	3.421-06
2	151	2.418+01	1.332+04	1.634-09	6.877-07	3	124	3.182+01	1.401+05	4.960-08	2.855-05
2	152	2.418+01	4.054+04	6.395-09	2.691-06	3	129	3.116+01	1.765-00	2.569-13	1.388-10
2	153	2.417+01	4.220+02	5.174-11	2.176-08	3	130	3.108+01	1.096+04	2.647-09	1.420-06
3	5	1.041+03	3.829-01	6.221-11	1.254-03	3	131	3.103+01	4.206+04	6.073-09	3.244-06
3	17	1.647+02	1.472+04	5.987-08	4.780-03	3	136	2.936+01	3.603+05	7.759-08	3.509-05
3	18	1.607+02	9.237+04	5.963-07	4.424-02	3	137	2.936+01	6.217+05	1.874-07	8.475-05
3	20	1.588+02	2.119+05	1.870-06	1.338-01	3	139	2.934+01	9.751+04	2.937-08	1.326-05
3	21	1.553+02	3.118+05	1.879-06	1.258-01	3	143	2.485+01	4.885+04	4.523-09	1.240-06
3	22	1.532+02	2.066+05	1.696-06	1.090-01	3	144	2.483+01	1.410+05	2.171-08	5.936-06
3	23	1.447+02	5.355+05	1.680-06	9.092-02	3	145	2.481+01	3.958+04	3.653-09	9.970-07
3	24	1.368+02	2.149+03	1.004-08	4.589-04	3	150	2.427+01	1.208+04	1.777-09	4.539-07
3	25	1.356+02	6.663+02	3.059-09	1.362-04	3	151	2.427+01	2.636+04	5.431-09	1.387-06
3	26	1.347+02	4.739+03	3.009-08	1.315-03	3	153	2.426+01	2.889+04	5.950-09	1.519-06
3	27	1.244+02	2.230+05	5.179-07	1.784-02	4	18	1.865+02	4.415+03	1.152-07	4.452-03
3	31	7.377+01	1.210+03	9.871-10	7.081-06	4	21	1.793+02	2.571+03	6.192-08	2.125-03
3	32	7.277+01	2.786+01	3.687-11	2.538-07	4	24	1.550+02	2.099+05	3.780-06	8.384-02
3	33	7.195+01	1.400+04	1.086-08	7.228-05	4	25	1.534+02	2.147+05	3.790-06	8.157-02
3	38	4.967+01	1.506+04	9.284-09	2.033-05	4	32	7.763+01	1.571+02	7.095-10	1.977-06
3	39	4.954+01	1.134+05	4.173-08	9.069-05	4	38	5.189+01	1.125+04	2.270-08	1.889-05
3	42	4.721+01	2.902+05	9.697-08	1.824-04	4	54	4.602+01	7.907+05	1.256-06	7.291-04
3	52	4.439+01	3.909+06	1.155-06	1.804-03	4	57	4.590+01	2.381+05	3.759-07	2.165-04
3	54	4.427+01	4.069+07	1.993-05	3.090-02	4	68	4.396+01	8.109+07	1.175-04	5.942-02
3	55	4.425+01	1.002+08	6.863-05	1.063-01	4	69	4.392+01	1.029+08	1.487-04	7.504-02
3	57	4.415+01	1.404+08	6.838-05	1.052-01	4	76	3.573+01	1.745+04	1.670-08	4.536-06
3	58	4.409+01	8.168+07	5.555-05	8.508-02	4	89	3.425+01	1.049+05	9.221-08	2.206-05
3	59	4.368+01	1.750+08	5.004-05	7.452-02	4	91	3.422+01	2.730+04	2.395-08	5.715-06
3	68	4.235+01	5.928+05	2.657-07	3.608-04	4	102	3.386+01	6.448+04	5.542-08	1.282-05
3	69	4.232+01	4.813+05	2.154-07	2.917-04	4	115	3.309+01	3.614+07	2.967-05	6.404-03
3	70	4.227+01	2.133+06	1.334-06	1.800-03	4	116	3.308+01	5.423+07	4.449-05	9.595-03
3	71	4.195+01	1.040+06	2.745-07	3.622-04	4	130	3.194+01	3.716+04	2.841-08	5.512-06
3	76	3.466+01	2.466+04	7.403-09	5.508-06	4	136	3.012+01	8.274+05	5.627-07	9.159-05
3	77	3.463+01	1.268+04	2.279-09	1.691-06	4	144	2.537+01	1.210+05	5.836-08	5.676-06
3	85	3.346+01	5.666+05	9.511-08	6.368-05	4	150	2.479+01	3.490+04	1.607-08	1.458-06
3	87	3.330+01	1.199+06	1.993-07	1.314-04	5	17	1.957+02	2.689+03	1.543-08	2.066-03
3	89	3.327+01	2.033+07	5.621-06	3.698-03	5	18	1.901+02	2.436+03	2.199-08	2.699-03
3	90	3.326+01	5.172+07	2.002-05	1.317-02	5	20	1.874+02	4.953+01	6.085-10	7.157-05
3	91	3.324+01	7.792+07	2.151-05	1.411-02	5	21	1.825+02	1.073+01	8.931-11	9.706-06
3	92	3.322+01	4.273+07	1.650-05	1.081-02	5	22	1.796+02	4.656+03	5.256-08	5.445-03
3	93	3.309+01	9.798+07	1.608-05	1.041-02	5	23	1.680+02	2.697+04	1.141-07	9.675-03
3	102	3.290+01	1.500+04	4.058-09	2.583-06	5	24	1.574+02	1.975+05	1.223-06	8.529-02
3	103	3.290+01	2.808+04	1.063-08	6.767-06	5	25	1.558+02	2.014+05	1.222-06	8.264-02
3	106	3.289+01	9.077+04	3.434-08	2.182-05	5	26	1.548+02	4.288+05	3.592-06	2.378-01
3	115	3.217+01	2.520+05	6.520-08	3.880-05	5	27	1.414+02	6.584+05	1.972-06	9.951-02
3	116	3.217+01	1.619+05	4.186-08	2.489-05	5	31	7.939+01	3.072+03	2.904-09	2.597-05
3	117	3.215+01	8.380+05	3.030-07	1.800-04	5	32	7.824+01	2.422+02	3.704-10	3.169-06

Table 4. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric quadrupole (E2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
5	33	7.729+01	1.177+04	1.054-08	8.695-05	6	10	1.509+03	1.345-01	7.652-11	4.700-03
5	38	5.216+01	1.359+04	9.238-09	2.343-05	6	12	7.873+02	1.598-00	1.485-10	1.294-03
5	39	5.202+01	1.186+05	4.813-08	1.211-04	6	13	6.540+02	5.710-01	3.661-11	1.830-04
5	42	4.946+01	3.807+04	1.396-08	3.017-05	6	14	6.408+02	2.988-00	3.066-10	1.442-03
5	52	4.636+01	6.954+05	2.241-07	3.990-04	6	28	1.166+02	4.177+01	8.510-11	2.409-06
5	54	4.624+01	3.744+04	2.000-08	3.533-05	6	34	6.738+01	8.119+05	5.526-07	3.020-03
5	55	4.622+01	3.937+05	2.942-07	5.189-04	6	35	6.733+01	5.259+05	5.956-07	3.248-03
5	57	4.611+01	8.145+05	4.327-07	7.578-04	6	36	6.723+01	2.342+05	3.704-07	2.011-03
5	58	4.604+01	2.066+06	1.532-06	2.672-03	6	37	6.542+01	6.215+03	6.646-09	3.325-05
5	59	4.559+01	1.226+06	3.821-07	6.472-04	6	40	5.301+01	6.726+05	2.833-07	7.538-04
5	68	4.415+01	1.026+08	4.995-05	7.682-02	6	43	5.280+01	8.432+06	5.874-06	1.545-02
5	69	4.411+01	7.953+07	3.867-05	5.931-02	6	44	5.265+01	3.115+07	3.021-05	7.879-02
5	70	4.406+01	1.814+08	1.232-04	1.884-01	6	45	5.256+01	1.283+06	5.313-07	1.379-03
5	71	4.371+01	1.790+08	5.128-05	7.654-02	6	46	5.243+01	1.327+06	9.115-07	2.348-03
5	76	3.585+01	2.034+04	6.535-09	5.383-06	6	48	5.015+01	2.106+06	7.940-07	1.790-03
5	77	3.582+01	3.928+03	7.557-10	6.207-07	6	49	4.992+01	2.187+05	8.169-08	1.815-04
5	85	3.457+01	8.129+03	1.457-09	1.076-06	6	50	4.987+01	1.181+06	7.339-07	1.626-03
5	87	3.440+01	4.414+04	7.831-09	5.695-06	6	60	4.779+01	2.656+08	9.097-05	1.774-01
5	89	3.437+01	1.412+05	4.165-08	3.021-05	6	63	4.777+01	1.568+08	8.938-05	1.741-01
5	90	3.436+01	7.114+05	2.939-07	2.131-04	6	64	4.770+01	8.700+07	6.926-05	1.344-01
5	91	3.433+01	1.520+06	4.477-07	3.238-04	6	65	4.769+01	2.811+07	1.598-05	3.097-02
5	92	3.432+01	1.195+06	4.923-07	3.555-04	6	66	4.769+01	2.829+05	2.250-07	4.361-04
5	93	3.417+01	5.929+05	1.038-07	7.403-05	6	72	4.553+01	3.516+04	2.550-08	4.302-05
5	102	3.398+01	3.733+04	1.077-08	7.546-06	6	74	4.549+01	1.278+07	9.253-06	1.557-02
5	103	3.397+01	3.219+05	1.300-07	9.107-05	6	75	4.549+01	4.385+06	2.267-06	3.814-03
5	106	3.396+01	5.766+04	2.326-08	1.628-05	6	78	3.694+01	3.358+05	6.870-08	6.189-05
5	115	3.320+01	5.735+07	1.579-05	1.033-02	6	79	3.689+01	3.389+06	1.152-06	1.034-03
5	116	3.319+01	3.811+07	1.049-05	6.855-03	6	80	3.685+01	1.426+07	6.773-06	6.057-03
5	117	3.318+01	9.229+07	3.554-05	2.319-02	6	81	3.683+01	4.447+05	9.044-08	8.073-05
5	118	3.309+01	9.700+07	1.592-05	1.031-02	6	82	3.680+01	7.667+05	2.594-07	2.309-04
5	124	3.282+01	3.064+04	1.154-08	7.294-06	6	94	3.562+01	3.384+07	6.439-06	5.201-03
5	129	3.212+01	1.153+05	1.784-08	1.056-05	6	95	3.561+01	2.206+07	6.990-06	5.641-03
5	130	3.204+01	5.352+04	1.373-08	8.066-06	6	98	3.559+01	1.149+07	5.090-06	4.100-03
5	131	3.199+01	7.020+04	1.077-08	6.299-06	6	99	3.558+01	2.757+06	8.722-07	7.020-04
5	136	3.021+01	4.382+05	9.995-08	4.925-05	6	100	3.558+01	6.138+05	2.718-07	2.188-04
5	137	3.021+01	4.899+05	1.564-07	7.705-05	6	110	3.556+01	3.084+06	5.845-07	4.697-04
5	139	3.020+01	3.113+05	9.928-08	4.884-05	6	111	3.551+01	3.379+05	6.390-08	5.114-05
5	143	2.546+01	9.086+04	8.828-09	2.603-06	6	112	3.549+01	8.343+05	2.626-07	2.097-04
5	144	2.543+01	1.526+05	2.466-08	7.249-06	6	114	3.478+01	9.480+02	1.720-10	1.293-07
5	145	2.542+01	2.639+01	2.556-12	7.499-10	6	120	3.435+01	2.299+04	9.488-09	6.870-06
5	150	2.485+01	1.690+04	2.607-09	7.148-07	6	121	3.434+01	1.391+06	5.739-07	4.154-04
5	151	2.485+01	1.524+04	3.292-09	9.025-07	6	123	3.434+01	4.698+05	1.384-07	1.001-04
5	153	2.484+01	3.979+04	8.589-09	2.353-06	6	132	3.210+01	3.584+06	5.535-07	3.270-04
6	7	3.394+03	1.402-02	4.034-11	2.819-02	6	133	3.209+01	3.068+06	7.894-07	4.661-04
6	8	2.365+03	3.882-01	7.595-10	1.795-01	6	134	3.208+01	2.592+06	9.332-07	5.505-04
6	9	1.926+03	2.414-02	1.343-11	1.715-03	6	135	3.193+01	9.925+03	2.529-09	1.472-06

Table 4. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric quadrupole (E2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
6	140	2.673+01	8.626+02	9.237-11	3.150-08	7	83	3.695+01	2.950+07	1.208-06	1.814-03
6	146	2.590+01	8.684+03	8.733-10	2.711-07	7	94	3.600+01	3.989+06	4.650-07	6.462-04
6	147	2.590+01	2.554+02	4.281-11	1.329-08	7	95	3.599+01	4.183+06	8.122-07	1.127-03
6	148	2.589+01	1.926+03	4.517-10	1.401-07	7	97	3.599+01	3.952+07	1.381-05	1.917-02
6	149	2.585+01	9.474-00	1.582-12	4.880-10	7	98	3.597+01	2.518+06	6.836-07	9.472-04
6	154	2.567+01	1.144+03	2.637-10	7.973-08	7	99	3.596+01	7.398+06	1.434-06	1.986-03
7	8	7.800+03	6.123-04	7.819-12	1.105-01	7	100	3.596+01	1.983+07	5.382-06	7.452-03
7	9	4.454+03	1.938-02	3.459-11	9.105-02	7	101	3.595+01	4.101+05	1.430-07	1.980-04
7	10	2.718+03	2.397-01	2.654-10	1.586-01	7	110	3.594+01	4.960+05	5.762-08	7.964-05
7	11	1.221+03	1.784+01	7.976-10	4.327-02	7	111	3.589+01	2.296+03	2.660-10	3.662-07
7	12	1.025+03	1.667-00	1.576-10	5.054-03	7	112	3.586+01	1.023+05	1.972-08	2.709-05
7	13	8.101+02	1.118-00	6.601-11	1.045-03	7	113	3.574+01	1.167+06	4.470-08	6.075-05
7	14	7.900+02	1.516-00	1.419-10	2.083-03	7	114	3.514+01	1.391+05	1.545-08	1.997-05
7	15	4.000+02	1.164+03	5.581-09	1.064-02	7	119	3.494+01	2.551+05	9.337-09	1.186-05
7	28	1.207+02	4.444+03	5.826-09	3.052-04	7	120	3.470+01	4.568+04	1.154-08	1.436-05
7	29	1.134+02	1.208+04	4.659-09	2.024-04	7	121	3.469+01	1.396+05	3.526-08	4.386-05
7	34	6.874+01	2.240+04	9.520-09	9.210-05	7	122	3.469+01	2.506+05	8.140-08	1.012-04
7	35	6.869+01	3.871+04	2.738-08	2.643-04	7	123	3.469+01	1.776+03	3.203-10	3.982-07
7	36	6.859+01	2.531+04	2.499-08	2.402-04	7	132	3.240+01	6.074+04	5.736-09	5.811-06
7	37	6.671+01	1.024+02	6.829-11	6.037-07	7	133	3.240+01	5.689+04	8.951-09	9.064-06
7	40	5.385+01	1.125+07	2.933-06	1.364-02	7	134	3.239+01	2.093+02	4.607-11	4.660-08
7	43	5.364+01	1.848+05	7.972-08	3.663-04	7	135	3.224+01	3.666+03	5.713-10	5.700-07
7	44	5.348+01	1.715+07	1.030-05	4.692-02	7	140	2.694+01	1.078+05	7.039-09	4.097-06
7	45	5.339+01	3.295+07	8.448-06	3.828-02	7	141	2.687+01	1.273+05	2.756-09	1.593-06
7	46	5.325+01	3.192+07	1.357-05	6.103-02	7	146	2.610+01	1.487+05	9.111-09	4.824-06
7	47	5.237+01	4.679+07	3.848-06	1.646-02	7	147	2.610+01	8.482+04	8.660-09	4.583-06
7	48	5.090+01	9.719+04	2.265-08	8.900-05	7	148	2.609+01	3.874+04	5.537-09	2.929-06
7	49	5.066+01	5.040+03	1.163-09	4.505-06	7	149	2.605+01	3.259+04	3.315-09	1.744-06
7	50	5.061+01	2.340+05	8.988-08	3.470-04	7	154	2.587+01	2.568+04	3.606-09	1.859-06
7	56	4.993+01	2.265+06	1.693-07	6.277-04	7	155	2.587+01	1.592+05	2.875-08	1.482-05
7	60	4.847+01	2.461+07	5.202-06	1.765-02	7	157	2.587+01	3.665+01	6.618-12	3.411-09
7	61	4.847+01	2.641+08	1.675-04	5.681-01	8	9	1.039+04	4.801-05	3.327-13	1.554-02
7	63	4.845+01	2.204+07	7.755-06	2.626-02	8	10	4.171+03	3.010-02	5.606-11	1.696-01
7	64	4.838+01	3.562+07	1.750-05	5.903-02	8	12	1.180+03	3.780-03	3.382-13	2.318-05
7	65	4.837+01	5.256+07	1.844-05	6.217-02	8	13	9.040+02	1.339+01	7.029-10	2.165-02
7	66	4.837+01	1.186+08	5.824-05	1.963-01	8	14	8.790+02	2.983-00	2.468-10	6.988-03
7	67	4.835+01	3.565+06	2.249-06	7.572-03	8	28	1.226+02	8.981+03	8.675-09	6.668-04
7	72	4.615+01	1.157+05	5.174-08	1.515-04	8	34	6.935+01	2.110+02	6.521-11	9.069-07
7	73	4.613+01	2.462+06	1.414-06	4.134-03	8	35	6.930+01	1.222+03	6.283-10	8.718-06
7	74	4.611+01	7.409+05	3.307-07	9.655-04	8	36	6.920+01	2.460+03	1.766-09	2.440-05
7	75	4.611+01	4.300+05	1.370-07	4.001-04	8	37	6.728+01	8.530-00	4.135-12	5.251-08
7	78	3.735+01	7.355+06	9.228-07	1.432-03	8	40	5.422+01	7.655+07	1.446-05	9.609-02
7	79	3.729+01	2.284+05	4.761-08	7.355-05	8	43	5.401+01	2.433+07	7.600-06	4.992-02
7	80	3.726+01	9.424+06	2.745-06	4.228-03	8	44	5.385+01	2.231+07	9.700-06	6.316-02
7	81	3.723+01	1.698+07	2.118-06	3.256-03	8	45	5.376+01	1.253+06	2.326-07	1.506-03
7	82	3.720+01	1.634+07	3.391-06	5.199-03	8	46	5.362+01	2.702+07	8.320-06	5.348-02

Table 4. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric quadrupole (E2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
8	48	5.124+01	1.795+04	3.028-09	1.699-05	8	155	2.595+01	1.957+04	2.541-09	1.852-06
8	49	5.099+01	4.158+05	6.946-08	3.839-04	8	156	2.595+01	1.921+05	3.048-08	2.222-05
8	50	5.094+01	2.905+04	8.074-09	4.451-05	8	157	2.595+01	1.257+04	1.632-09	1.189-06
8	60	4.878+01	1.519+06	2.322-07	1.124-03	9	10	6.970+03	1.670-03	2.027-11	1.226-01
8	61	4.878+01	3.322+07	1.524-05	7.372-02	9	12	1.331+03	3.993-05	1.061-14	4.476-07
8	62	4.877+01	3.332+08	1.868-04	9.036-01	9	13	9.902+02	5.774-01	8.486-11	1.472-03
8	63	4.875+01	9.512+06	2.421-06	1.170-02	9	14	9.603+02	9.844-03	2.268-12	3.589-05
8	64	4.869+01	4.614+07	1.640-05	7.888-02	9	28	1.241+02	1.179+03	2.722-09	9.290-05
8	65	4.868+01	4.059+06	1.030-06	4.953-03	9	34	6.982+01	1.438+04	1.051-08	6.393-05
8	66	4.867+01	7.638+06	2.713-06	1.304-02	9	35	6.977+01	3.604+03	4.384-09	2.660-05
8	67	4.865+01	1.150+08	5.247-05	2.520-01	9	36	6.966+01	8.954+04	1.520-07	9.183-04
8	72	4.643+01	1.400+04	4.523-09	1.887-05	9	37	6.772+01	1.790+05	2.051-07	1.138-03
8	73	4.641+01	1.008+05	4.187-08	1.745-04	9	40	5.450+01	7.849+05	3.496-07	1.011-03
8	74	4.639+01	2.319+04	7.482-09	3.113-05	9	43	5.429+01	1.690+07	1.244-05	3.558-02
8	75	4.638+01	5.025+03	1.158-09	4.817-06	9	44	5.413+01	1.560+06	1.599-06	4.533-03
8	78	3.753+01	3.983+07	3.604-06	7.942-03	9	45	5.404+01	2.096+07	9.174-06	2.586-02
8	79	3.747+01	1.151+07	1.730-06	3.796-03	9	46	5.390+01	2.170+07	1.575-05	4.407-02
8	80	3.744+01	1.176+07	2.471-06	5.404-03	9	48	5.149+01	1.895+03	7.532-10	1.838-06
8	81	3.741+01	5.073+05	4.562-08	9.960-05	9	49	5.124+01	4.491+05	1.768-07	4.251-04
8	82	3.738+01	1.228+07	1.838-06	4.002-03	9	50	5.119+01	7.294+05	4.777-07	1.145-03
8	94	3.617+01	2.744+05	2.306-08	4.549-05	9	60	4.901+01	1.341+07	4.830-06	1.016-02
8	95	3.616+01	1.883+06	2.636-07	5.194-04	9	63	4.898+01	1.715+07	1.028-05	2.159-02
8	96	3.615+01	4.629+07	1.425-05	2.808-02	9	64	4.892+01	1.312+07	1.098-05	2.297-02
8	97	3.615+01	4.897+06	1.234-06	2.430-03	9	65	4.890+01	1.348+08	8.057-05	1.684-01
8	98	3.613+01	6.360+06	1.245-06	2.449-03	9	66	4.890+01	1.975+08	1.652-04	3.451-01
8	99	3.612+01	4.351+05	6.080-08	1.195-04	9	72	4.663+01	3.566+06	2.713-06	4.916-03
8	100	3.612+01	1.740+06	3.405-07	6.692-04	9	74	4.659+01	3.780+05	2.871-07	5.189-04
8	101	3.612+01	1.515+07	3.810-06	7.486-03	9	75	4.659+01	4.100+06	2.224-06	4.019-03
8	110	3.610+01	1.539+04	1.288-09	2.528-06	9	78	3.766+01	7.457+05	1.586-07	1.514-04
8	111	3.606+01	1.089+04	9.096-10	1.778-06	9	79	3.761+01	9.384+06	3.317-06	3.152-03
8	112	3.603+01	4.676+04	6.499-09	1.267-05	9	80	3.757+01	1.066+06	5.262-07	4.986-04
8	114	3.530+01	2.906+05	2.327-08	4.269-05	9	81	3.755+01	1.103+07	2.331-06	2.205-03
8	120	3.485+01	6.767+02	1.232-10	2.176-07	9	82	3.751+01	1.176+07	4.136-06	3.902-03
8	121	3.485+01	3.479+04	6.334-09	1.118-05	9	94	3.629+01	2.383+06	4.706-07	4.020-04
8	122	3.485+01	1.748+02	4.091-11	7.218-08	9	95	3.628+01	1.390+06	4.572-07	3.902-04
8	123	3.484+01	8.159+03	1.061-09	1.871-06	9	98	3.626+01	3.943+06	1.813-06	1.545-03
8	132	3.254+01	5.235+03	3.561-10	5.113-07	9	99	3.625+01	2.095+07	6.879-06	5.856-03
8	133	3.253+01	3.193+04	3.618-09	5.194-06	9	100	3.625+01	2.676+07	1.230-05	1.047-02
8	134	3.252+01	5.720+04	9.069-09	1.301-05	9	110	3.623+01	3.512+04	6.910-09	5.871-06
8	135	3.237+01	8.599+01	9.650-12	1.365-08	9	111	3.618+01	2.004+05	3.933-08	3.329-05
8	140	2.703+01	2.898+05	1.360-08	1.120-05	9	112	3.615+01	3.071+05	1.003-07	8.471-05
8	146	2.619+01	2.711+04	1.195-09	8.943-07	9	114	3.542+01	4.926+04	9.266-09	7.359-06
8	147	2.618+01	1.606+05	1.179-08	8.826-06	9	120	3.497+01	5.211+05	2.229-07	1.704-04
8	148	2.618+01	2.785+05	2.862-08	2.141-05	9	121	3.497+01	2.352+04	1.006-08	7.683-06
8	149	2.613+01	6.215+02	4.545-11	3.382-08	9	123	3.496+01	5.211+05	1.592-07	1.215-04
8	154	2.595+01	2.721+03	2.748-10	2.003-07	9	132	3.264+01	1.905+04	3.043-09	1.890-06

Table 4. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric quadrupole (E2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
9	133	3.263+01	1.817+05	4.835-08	3.002-05	10	83	3.746+01	2.880+07	1.212-06	1.897-03
9	134	3.262+01	2.614+05	9.730-08	6.037-05	10	94	3.649+01	3.484+06	4.172-07	6.034-04
9	135	3.247+01	1.703+04	4.486-09	2.745-06	10	95	3.647+01	1.098+07	2.190-06	3.165-03
9	140	2.710+01	2.932+04	3.228-09	1.148-06	10	97	3.647+01	4.983+06	1.788-06	2.583-03
9	146	2.625+01	5.188+04	5.360-09	1.733-06	10	98	3.645+01	2.164+07	6.035-06	8.704-03
9	147	2.625+01	3.476+04	5.986-09	1.935-06	10	99	3.644+01	1.257+05	2.503-08	3.607-05
9	148	2.625+01	4.345+02	1.047-10	3.383-08	10	100	3.644+01	1.159+05	3.229-08	4.653-05
9	149	2.620+01	2.916+01	5.002-12	1.607-09	10	101	3.644+01	3.150+07	1.128-05	1.625-02
9	154	2.602+01	4.113+04	9.741-09	3.066-06	10	110	3.642+01	2.031+05	2.423-08	3.485-05
10	11	2.218+03	3.498-01	5.160-11	1.677-02	10	111	3.637+01	1.296+04	1.542-09	2.209-06
10	12	1.646+03	8.058-02	1.963-11	2.607-03	10	112	3.634+01	2.052+05	4.064-08	5.810-05
10	13	1.154+03	3.080-01	3.690-11	1.689-03	10	113	3.621+01	1.826+06	7.178-08	1.015-04
10	14	1.114+03	4.620-03	8.590-13	3.534-05	10	114	3.560+01	1.470+02	1.676-11	2.253-08
10	15	4.690+02	8.269+02	5.454-09	1.676-02	10	119	3.539+01	2.938+05	1.103-08	1.457-05
10	28	1.263+02	4.992-00	7.166-12	4.302-07	10	120	3.515+01	2.811+03	7.287-10	9.423-07
10	29	1.183+02	1.133+04	4.758-09	2.349-04	10	121	3.514+01	5.051+04	1.309-08	1.692-05
10	34	7.053+01	6.708+04	3.001-08	3.135-04	10	122	3.514+01	2.914+03	9.709-10	1.255-06
10	35	7.047+01	1.576+05	1.173-07	1.223-03	10	123	3.514+01	4.367+04	8.083-09	1.044-05
10	36	7.037+01	1.764+05	1.834-07	1.903-03	10	132	3.279+01	4.208+04	4.071-09	4.275-06
10	37	6.838+01	1.402+03	9.827-10	9.359-06	10	133	3.279+01	9.122+04	1.470-08	1.543-05
10	40	5.493+01	3.948+06	1.072-06	5.291-03	10	134	3.278+01	9.886+04	2.229-08	2.338-05
10	43	5.472+01	3.208+07	1.440-05	7.025-02	10	135	3.263+01	8.416+03	1.343-09	1.389-06
10	44	5.456+01	1.953+07	1.220-05	5.899-02	10	140	2.721+01	2.653+02	1.766-11	1.059-08
10	45	5.446+01	3.523+07	9.399-06	4.521-02	10	141	2.714+01	1.441+05	3.184-09	1.896-06
10	46	5.432+01	1.227+05	5.429-08	2.591-04	10	146	2.635+01	9.131+03	5.703-10	3.108-07
10	47	5.340+01	3.667+07	3.135-06	1.422-02	10	147	2.635+01	1.398+04	1.455-09	7.928-07
10	48	5.188+01	1.031+05	2.496-08	1.038-04	10	148	2.635+01	1.250+04	1.821-09	9.918-07
10	49	5.162+01	2.788+03	6.684-10	2.738-06	10	149	2.630+01	4.609+04	4.779-09	2.588-06
10	50	5.157+01	9.357+04	3.731-08	1.524-04	10	154	2.612+01	5.457+01	7.811-12	4.144-09
10	56	5.086+01	5.372+06	4.167-07	1.633-03	10	155	2.612+01	2.286+04	4.208-09	2.232-06
10	60	4.935+01	2.673+07	5.857-06	2.097-02	10	157	2.611+01	4.517+04	8.313-09	4.409-06
10	61	4.935+01	3.790+07	2.491-05	8.919-02	11	14	2.237+03	1.621-01	6.080-10	4.054-02
10	63	4.933+01	7.520+07	2.743-05	9.805-02	11	35	7.278+01	9.310+04	3.697-07	8.490-04
10	64	4.926+01	1.465+08	7.464-05	2.657-01	11	37	7.056+01	1.884+02	7.031-10	1.471-06
10	65	4.925+01	3.682+06	1.339-06	4.763-03	11	43	5.610+01	5.882+06	1.388-05	1.459-02
10	66	4.924+01	7.144+06	3.636-06	1.293-02	11	46	5.568+01	4.717+06	1.096-05	1.127-02
10	67	4.923+01	2.100+08	1.373-04	4.880-01	11	50	5.280+01	7.694+06	1.608-05	1.410-02
10	72	4.695+01	2.504+04	1.158-08	3.571-05	11	63	5.045+01	2.502+07	4.773-05	3.650-02
10	73	4.693+01	4.192+02	2.491-10	7.668-07	11	65	5.037+01	5.326+07	1.013-04	7.709-02
10	74	4.691+01	3.422+05	1.580-07	4.857-04	11	75	4.792+01	7.327+07	1.261-04	8.265-02
10	75	4.690+01	8.748+04	2.886-08	8.868-05	11	79	3.847+01	3.925+06	4.354-06	1.476-03
10	78	3.787+01	2.028+06	2.616-07	4.231-04	11	82	3.837+01	3.325+06	3.669-06	1.234-03
10	79	3.781+01	1.813+07	3.885-06	6.256-03	11	95	3.708+01	3.113+06	3.208-06	9.744-04
10	80	3.777+01	1.090+07	3.264-06	5.238-03	11	99	3.705+01	9.512+06	9.787-06	2.965-03
10	81	3.775+01	1.928+07	2.472-06	3.960-03	11	112	3.695+01	3.200+06	3.275-06	9.840-04
10	82	3.772+01	6.994+04	1.492-08	2.384-05	11	123	3.570+01	1.032+07	9.863-06	2.674-03

Table 4. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric quadrupole (E2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
11	133	3.328+01	9.143+04	7.591-08	1.666-05	12	134	3.344+01	1.243+04	4.864-09	3.251-06
11	135	3.311+01	2.563+03	2.107-09	4.556-07	12	135	3.328+01	8.642+03	2.392-09	1.576-06
11	147	2.667+01	7.304+03	3.893-09	4.397-07	12	140	2.766+01	6.736+04	7.729-09	2.924-06
11	149	2.661+01	1.030+05	5.467-08	6.138-06	12	146	2.678+01	6.675+04	7.177-09	2.463-06
12	13	3.863+03	6.069-02	1.358-10	1.398-01	12	147	2.678+01	9.554+04	1.712-08	5.874-06
12	14	3.445+03	5.802-02	1.720-10	1.257-01	12	148	2.677+01	5.502+03	1.380-09	4.732-07
12	28	1.368+02	2.153+03	6.042-09	2.766-04	12	149	2.673+01	5.576+02	9.952-11	3.394-08
12	34	7.368+01	2.954+03	2.404-09	1.719-05	12	154	2.654+01	1.146+05	2.824-08	9.432-06
12	35	7.362+01	9.367+03	1.269-08	9.047-05	13	14	3.182+04	5.493-07	1.390-13	8.002-02
12	36	7.351+01	2.222+02	4.200-10	2.982-06	13	28	1.419+02	1.974+02	5.955-10	3.038-05
12	37	7.135+01	6.801+04	8.650-08	5.614-04	13	34	7.512+01	1.332+04	1.126-08	8.531-05
12	40	5.683+01	3.088+05	1.495-07	4.904-04	13	35	7.505+01	1.036+04	1.458-08	1.102-04
12	43	5.660+01	3.004+05	2.404-07	7.789-04	13	36	7.494+01	1.925+05	3.781-07	2.843-03
12	44	5.643+01	2.146+04	2.390-08	7.671-05	13	37	7.269+01	3.460+04	4.568-08	3.135-04
12	45	5.632+01	3.691+05	1.755-07	5.603-04	13	40	5.768+01	7.665+03	3.823-09	1.311-05
12	46	5.617+01	3.876+05	3.056-07	9.678-04	13	43	5.744+01	4.162+05	3.431-07	1.162-03
12	48	5.356+01	3.488+05	1.500-07	4.120-04	13	44	5.726+01	1.247+06	1.430-06	4.798-03
12	49	5.329+01	4.962+07	2.113-05	5.715-02	13	45	5.715+01	5.627+04	2.756-08	9.193-05
12	50	5.324+01	2.425+07	1.718-05	4.632-02	13	46	5.700+01	5.508+02	4.472-10	1.480-06
12	60	5.088+01	2.117+05	8.217-08	1.934-04	13	48	5.432+01	4.523+07	2.001-05	5.730-02
12	63	5.085+01	1.238+06	8.001-07	1.880-03	13	49	5.404+01	1.768+07	7.742-06	2.183-02
12	64	5.078+01	1.233+06	1.112-06	2.603-03	13	50	5.399+01	1.530+07	1.114-05	3.133-02
12	65	5.077+01	2.387+06	1.537-06	3.595-03	13	60	5.156+01	9.825+06	3.916-06	9.591-03
12	66	5.076+01	2.163+06	1.950-06	4.557-03	13	63	5.153+01	7.030+06	4.664-06	1.140-02
12	72	4.833+01	2.686+08	2.195-04	4.426-01	13	64	5.146+01	2.503+06	2.319-06	5.645-03
12	74	4.828+01	1.357+05	1.106-07	2.225-04	13	65	5.145+01	1.552+05	1.026-07	2.497-04
12	75	4.828+01	9.284+07	5.408-05	1.088-01	13	66	5.144+01	2.686+05	2.486-07	6.046-04
12	78	3.876+01	1.925+05	4.335-08	4.511-05	13	72	4.894+01	1.494+07	1.252-05	2.622-02
12	79	3.870+01	2.476+05	9.268-08	9.600-05	13	74	4.890+01	2.602+08	2.176-04	4.545-01
12	80	3.866+01	1.555+04	8.130-09	8.395-06	13	75	4.889+01	5.729+07	3.422-05	7.146-02
12	81	3.864+01	3.824+05	8.559-08	8.821-05	13	78	3.915+01	1.885+03	4.331-10	4.645-07
12	82	3.860+01	3.644+05	1.357-07	1.395-04	13	79	3.909+01	4.356+05	1.663-07	1.776-04
12	94	3.731+01	1.135+04	2.369-09	2.199-06	13	80	3.905+01	9.445+05	5.039-07	5.362-04
12	95	3.730+01	2.640+05	9.176-08	8.508-05	13	81	3.903+01	9.247+04	2.111-08	2.243-05
12	98	3.728+01	3.179+05	1.545-07	1.430-04	13	82	3.899+01	5.204+03	1.977-09	2.094-06
12	99	3.727+01	4.011+05	1.392-07	1.287-04	13	94	3.768+01	4.423+06	9.413-07	8.995-04
12	100	3.726+01	4.178+05	2.030-07	1.877-04	13	95	3.766+01	1.797+06	6.370-07	6.080-04
12	110	3.724+01	1.574+04	3.273-09	3.020-06	13	98	3.764+01	6.780+05	3.360-07	3.201-04
12	111	3.719+01	2.515+07	5.216-06	4.795-03	13	99	3.763+01	3.537+04	1.251-08	1.191-05
12	112	3.716+01	1.266+07	4.368-06	4.006-03	13	100	3.763+01	6.872+03	3.403-09	3.240-06
12	114	3.639+01	5.619+05	1.116-07	9.607-05	13	110	3.760+01	1.731+07	3.669-06	3.486-03
12	120	3.591+01	3.940+07	1.778-05	1.472-02	13	111	3.755+01	1.198+07	2.534-06	2.398-03
12	121	3.591+01	4.829+04	2.178-08	1.802-05	13	112	3.753+01	7.656+06	2.694-06	2.543-03
12	123	3.590+01	1.402+07	4.516-06	3.735-03	13	114	3.674+01	5.725+04	1.158-08	1.026-05
12	132	3.346+01	5.792+03	9.722-10	6.507-07	13	120	3.625+01	1.145+06	5.265-07	4.482-04
12	133	3.345+01	1.096+05	3.064-08	2.050-05	13	121	3.625+01	3.745+07	1.721-05	1.464-02

Table 4. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric quadrupole (E2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
13	123	3.624+01	8.220+06	2.698-06	2.294-03	14	95	3.771+01	1.425+05	3.037-08	4.849-05
13	132	3.375+01	2.209+05	3.773-08	2.592-05	14	97	3.770+01	2.589+05	9.930-08	1.585-04
13	133	3.375+01	4.196+05	1.194-07	8.200-05	14	98	3.768+01	1.444+05	4.304-08	6.859-05
13	134	3.374+01	1.162+06	4.625-07	3.173-04	14	99	3.767+01	1.647+05	3.505-08	5.582-05
13	135	3.358+01	2.384+03	6.716-10	4.542-07	14	100	3.767+01	1.331+05	3.965-08	6.313-05
13	140	2.786+01	7.782+03	9.058-10	3.501-07	14	101	3.767+01	1.006+04	3.853-09	6.133-06
13	146	2.697+01	6.879+03	7.500-10	2.628-07	14	110	3.765+01	2.670+07	3.404-06	5.409-03
13	147	2.697+01	4.440+02	8.067-11	2.826-08	14	111	3.760+01	8.632+06	1.098-06	1.737-03
13	148	2.696+01	5.048+04	1.284-08	4.495-06	14	112	3.757+01	1.686+07	3.567-06	5.632-03
13	149	2.691+01	1.764-01	3.192-14	1.112-11	14	113	3.743+01	5.301+07	2.227-06	3.477-03
13	154	2.672+01	1.022+04	2.553-09	8.705-07	14	114	3.678+01	5.706+05	6.944-08	1.029-04
14	15	8.102+02	1.550+02	3.050-09	4.831-02	14	119	3.655+01	8.382+05	3.358-08	4.885-05
14	28	1.425+02	1.786+03	3.262-09	2.810-04	14	120	3.629+01	8.292+06	2.292-06	3.264-03
14	29	1.324+02	8.443+03	4.439-09	3.070-04	14	121	3.629+01	7.158+06	1.978-06	2.815-03
14	34	7.529+01	7.597+03	3.874-09	4.925-05	14	122	3.629+01	4.651+07	1.653-05	2.351-02
14	35	7.523+01	2.285+04	1.939-08	2.459-04	14	123	3.628+01	2.999+06	5.919-07	8.419-04
14	36	7.511+01	3.922+04	4.644-08	5.860-04	14	132	3.379+01	5.056+01	5.193-12	5.965-09
14	37	7.286+01	2.172+02	1.728-10	1.991-06	14	133	3.378+01	1.171+04	2.004-09	2.301-06
14	40	5.778+01	6.800+04	2.042-08	1.173-04	14	134	3.377+01	9.241+04	2.212-08	2.537-05
14	43	5.754+01	7.081+04	3.515-08	1.995-04	14	135	3.361+01	4.770+03	8.078-10	9.134-07
14	44	5.737+01	1.874+05	1.294-07	7.276-04	14	140	2.789+01	7.918+04	5.540-09	3.578-06
14	45	5.726+01	3.312+01	9.768-12	5.461-08	14	141	2.782+01	1.678+05	3.895-09	2.497-06
14	46	5.710+01	3.051+05	1.492-07	8.271-04	14	146	2.699+01	6.984+04	4.577-09	2.680-06
14	47	5.609+01	7.496+06	7.071-07	3.716-03	14	147	2.699+01	1.553+04	1.696-09	9.927-07
14	48	5.441+01	4.507+07	1.200-05	5.759-02	14	148	2.698+01	8.062+04	1.232-08	7.210-06
14	49	5.413+01	2.387+07	6.291-06	2.972-02	14	149	2.693+01	5.279+04	5.741-09	3.341-06
14	50	5.408+01	3.195+07	1.401-05	6.596-02	14	154	2.674+01	1.873+04	2.812-09	1.602-06
14	56	5.330+01	8.331+07	7.096-06	3.199-02	14	155	2.674+01	7.207+02	1.391-10	7.924-08
14	60	5.164+01	2.038+05	4.889-08	2.006-04	14	157	2.674+01	1.588+05	3.065-08	1.746-05
14	61	5.164+01	1.230+06	8.849-07	3.630-03	15	35	8.293+01	9.595+02	4.947-09	1.681-05
14	63	5.161+01	3.331+05	1.330-07	5.448-04	15	37	8.006+01	6.222+03	2.989-08	9.135-05
14	64	5.154+01	8.433+05	4.702-07	1.917-03	15	43	6.194+01	3.505+06	1.008-05	1.427-02
14	65	5.153+01	5.150+05	2.050-07	8.353-04	15	46	6.143+01	3.530+06	9.988-06	1.379-02
14	66	5.152+01	3.531+05	1.967-07	8.013-04	15	50	5.794+01	1.042+07	2.622-05	3.039-02
14	67	5.151+01	4.989+02	3.572-10	1.453-06	15	63	5.512+01	1.373+07	3.127-05	3.120-02
14	72	4.901+01	5.206+07	2.625-05	9.207-02	15	65	5.503+01	3.558+07	8.077-05	8.017-02
14	73	4.899+01	3.270+08	2.118-04	7.419-01	15	75	5.212+01	7.100+07	1.446-04	1.219-01
14	74	4.897+01	5.682+07	2.860-05	1.000-01	15	79	4.113+01	5.054+06	6.408-06	2.655-03
14	75	4.897+01	2.143+07	7.704-06	2.694-02	15	82	4.102+01	4.628+06	5.835-06	2.398-03
14	78	3.920+01	1.197+04	1.654-09	2.968-06	15	95	3.955+01	1.425+06	1.671-06	6.155-04
14	79	3.914+01	1.755+04	4.031-09	7.198-06	15	99	3.951+01	7.232+06	8.463-06	3.109-03
14	80	3.910+01	1.239+05	3.977-08	7.080-05	15	112	3.940+01	1.128+07	1.312-05	4.778-03
14	81	3.908+01	1.271+04	1.746-09	3.102-06	15	123	3.798+01	1.321+07	1.429-05	4.663-03
14	82	3.904+01	4.264+05	9.742-08	1.726-04	15	133	3.525+01	5.714+03	5.322-09	1.389-06
14	83	3.876+01	1.833+04	8.258-10	1.432-06	15	135	3.506+01	2.146+05	1.978-07	5.080-05
14	94	3.772+01	6.250+05	7.999-08	1.278-04	15	147	2.792+01	6.794+03	3.969-09	5.145-07

Table 4. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric quadrupole (E2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
15	149	2.786+01	1.132+06	6.587-07	8.485-05	17	76	4.390+01	1.474+06	7.097-07	1.073-03
16	18	4.374+03	3.412-03	4.892-11	2.438-02	17	77	4.385+01	1.177+05	3.393-08	5.112-05
16	21	2.241+03	2.044-02	7.696-11	5.161-03	17	85	4.199+01	3.361+04	8.885-09	1.176-05
16	24	7.579+02	1.678-00	7.224-10	1.873-03	17	87	4.174+01	3.650+06	9.533-07	1.238-03
16	25	7.223+02	2.345-00	9.174-10	2.059-03	17	89	4.169+01	1.687+06	7.324-07	9.481-04
16	32	1.290+02	5.064-00	6.321-11	8.090-07	17	90	4.168+01	6.811+05	4.140-07	5.357-04
16	38	7.073+01	1.409+06	5.283-06	1.113-02	17	91	4.164+01	8.264+04	3.580-08	4.619-05
16	54	6.026+01	4.881+06	1.329-05	1.731-02	17	92	4.162+01	1.489+06	9.022-07	1.162-03
16	57	6.004+01	1.407+06	3.800-06	4.899-03	17	93	4.141+01	6.118+05	1.572-07	1.995-04
16	68	5.676+01	3.340+04	8.066-08	8.787-05	17	102	4.112+01	1.293+08	5.461-05	6.782-02
16	69	5.670+01	1.458+05	3.512-07	3.813-04	17	103	4.111+01	8.116+07	4.799-05	5.959-02
16	76	4.375+01	4.958+05	7.114-07	3.548-04	17	106	4.109+01	4.234+07	2.501-05	3.100-02
16	89	4.155+01	1.876+06	2.428-06	1.037-03	17	115	3.999+01	2.125+02	8.490-11	9.700-08
16	91	4.151+01	5.377+05	6.943-07	2.957-04	17	116	3.997+01	5.169+03	2.064-09	2.355-06
16	102	4.098+01	1.039+08	1.308-04	5.363-02	17	117	3.995+01	1.218+05	6.802-08	7.750-05
16	115	3.986+01	3.413+04	4.065-08	1.534-05	17	118	3.983+01	2.132+05	5.070-08	5.722-05
16	116	3.985+01	7.857+04	9.352-08	3.524-05	17	124	3.944+01	6.152+06	3.347-06	3.668-03
16	130	3.820+01	5.086+04	5.563-08	1.846-05	17	129	3.842+01	5.098+04	1.128-08	1.144-05
16	136	3.563+01	7.951+05	7.565-07	2.038-04	17	130	3.831+01	1.025+05	3.759-08	3.778-05
16	144	2.917+01	3.273+04	2.087-08	3.084-06	17	131	3.824+01	4.457+03	9.771-10	9.763-07
16	150	2.840+01	1.410+05	8.525-08	1.163-05	17	136	3.573+01	6.513+05	2.078-07	1.693-04
17	18	6.661+03	4.810-04	5.332-12	2.815-02	17	137	3.573+01	9.740+05	4.349-07	3.543-04
17	20	4.444+03	7.886-04	5.447-12	8.541-03	17	139	3.571+01	5.399+04	2.408-08	1.959-05
17	21	2.720+03	7.563-03	1.398-11	5.027-03	17	143	2.927+01	2.806+04	3.604-09	1.614-06
17	22	2.193+03	7.401-02	1.245-10	2.348-02	17	144	2.923+01	6.603+04	1.410-08	6.294-06
17	23	1.190+03	1.154-00	2.448-10	7.363-03	17	145	2.921+01	8.777+03	1.123-09	5.002-07
17	24	8.059+02	3.068-02	4.979-12	4.657-05	17	150	2.846+01	1.473+05	2.982-08	1.229-05
17	25	7.658+02	2.709-01	3.970-11	3.185-04	17	151	2.846+01	1.563+05	4.429-08	1.825-05
17	26	7.401+02	3.308-00	6.337-10	4.590-03	17	153	2.845+01	9.943+03	2.816-09	1.159-06
17	27	5.092+02	4.506-00	1.751-10	4.131-04	18	19	1.214+05	3.901-11	1.552-16	8.282-03
17	31	1.336+02	1.733+01	4.639-11	1.977-06	18	20	1.335+04	3.779-06	1.414-13	1.002-02
17	32	1.304+02	1.790-01	7.601-13	3.009-08	18	21	4.597+03	2.468-03	7.819-12	2.263-02
17	33	1.278+02	1.622+01	3.968-11	1.478-06	18	22	3.270+03	3.955-02	8.877-11	9.247-02
17	38	7.112+01	3.904+06	4.934-06	3.172-02	18	23	1.448+03	3.575-01	6.743-11	6.099-03
17	39	7.086+01	2.873+05	2.163-07	1.375-03	18	24	9.168+02	1.449-01	1.825-11	4.189-04
17	42	6.619+01	2.025+05	1.330-07	6.891-04	18	25	8.652+02	1.212-00	1.360-10	2.624-03
17	52	6.076+01	9.234+06	5.111-06	2.049-02	18	26	8.326+02	4.342-01	6.317-11	1.086-03
17	54	6.054+01	4.518+06	4.138-06	1.641-02	18	27	5.513+02	1.268+01	3.466-10	1.730-03
17	55	6.051+01	1.790+06	2.292-06	9.072-03	18	30	1.370+02	3.745+01	2.109-11	1.615-06
17	57	6.032+01	2.367+05	2.152-07	8.440-04	18	31	1.364+02	2.524+01	4.220-11	3.186-06
17	58	6.021+01	3.398+06	4.310-06	1.681-02	18	32	1.330+02	3.215+01	8.521-11	5.965-06
17	59	5.945+01	1.762+06	9.336-07	3.504-03	18	33	1.302+02	1.294+01	1.974-11	1.299-06
17	68	5.702+01	8.092+04	6.573-08	2.177-04	18	38	7.189+01	4.777+06	3.701-06	4.096-02
17	69	5.695+01	1.337+03	1.083-09	3.576-06	18	39	7.162+01	2.655+06	1.225-06	1.340-02
17	70	5.687+01	2.032+05	2.299-07	7.555-04	18	41	6.697+01	1.043+06	1.403-07	1.255-03
17	71	5.629+01	5.652+05	2.685-07	8.557-04	18	42	6.685+01	4.392+05	1.766-07	1.571-03

Table 4. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric quadrupole (E2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
18	51	6.145+01	2.065+07	2.338-06	1.616-02	18	144	2.936+01	3.013+04	3.895-09	2.936-06
18	52	6.132+01	6.198+06	2.096-06	1.439-02	18	145	2.934+01	1.923+04	1.489-09	1.120-06
18	53	6.115+01	1.463+06	1.477-06	1.006-02	18	150	2.859+01	4.036+04	4.944-09	3.439-06
18	54	6.110+01	1.128+05	6.315-08	4.290-04	18	151	2.859+01	7.000+04	1.201-08	8.352-06
18	55	6.106+01	6.938+05	5.429-07	3.681-03	18	152	2.858+01	1.843+05	4.063-08	2.826-05
18	57	6.087+01	3.040+06	1.689-06	1.134-02	18	153	2.858+01	7.717+03	1.323-09	9.193-07
18	58	6.076+01	9.533+06	7.386-06	4.934-02	19	20	1.500+04	1.266-05	3.321-13	6.008-02
18	59	5.998+01	3.532+06	1.143-06	7.345-03	19	21	4.778+03	9.655-04	1.836-12	1.074-02
18	68	5.751+01	8.693+04	4.310-08	2.442-04	19	22	3.361+03	3.885-02	5.117-11	1.041-01
18	69	5.744+01	1.084+06	5.364-07	3.028-03	19	24	9.238+02	1.471-01	1.046-11	4.419-04
18	70	5.736+01	4.386+05	3.029-07	1.702-03	19	25	8.715+02	4.454-00	2.817-10	9.994-03
18	71	5.677+01	5.489+04	1.591-08	8.671-05	19	26	8.383+02	3.622-00	2.968-10	9.373-03
18	76	4.419+01	2.049+06	5.999-07	1.542-03	19	32	1.331+02	2.546+03	3.757-09	4.750-04
18	77	4.414+01	1.095+06	1.919-07	4.916-04	19	38	7.193+01	1.213+07	5.229-06	1.043-01
18	84	4.228+01	2.999+05	1.608-08	3.620-05	19	53	6.118+01	1.779+07	9.985-06	1.226-01
18	85	4.226+01	1.545+05	2.482-08	5.579-05	19	54	6.113+01	3.548+06	1.104-06	1.352-02
18	86	4.203+01	7.726+06	4.093-07	9.050-04	19	55	6.109+01	6.623+06	2.882-06	3.523-02
18	87	4.200+01	2.081+06	3.301-07	7.283-04	19	57	6.090+01	1.001+06	3.092-07	3.744-03
18	88	4.197+01	5.534+05	2.630-07	5.788-04	19	58	6.079+01	7.739+06	3.334-06	4.016-02
18	89	4.195+01	1.289+05	3.401-08	7.476-05	19	68	5.754+01	7.489+02	2.065-10	2.108-06
18	90	4.194+01	3.648+05	1.347-07	2.960-04	19	69	5.747+01	2.234+04	6.145-09	6.253-05
18	91	4.190+01	1.319+06	3.471-07	7.606-04	19	70	5.739+01	2.048+04	7.866-09	7.969-05
18	92	4.188+01	4.158+06	1.530-06	3.347-03	19	76	4.421+01	5.033+06	8.192-07	3.794-03
18	93	4.167+01	1.608+06	2.511-07	5.409-04	19	88	4.198+01	7.122+06	1.881-06	7.462-03
18	102	4.137+01	2.963+07	7.603-06	1.603-02	19	89	4.196+01	1.148+06	1.685-07	6.673-04
18	103	4.137+01	8.235+07	2.958-05	6.236-02	19	90	4.196+01	2.782+06	5.711-07	2.262-03
18	106	4.135+01	2.473+07	8.872-06	1.867-02	19	91	4.192+01	4.439+05	6.496-08	2.565-04
18	107	4.134+01	1.699+08	7.838-05	1.649-01	19	92	4.189+01	3.525+06	7.213-07	2.843-03
18	108	4.133+01	1.377+05	6.348-08	1.335-04	19	102	4.139+01	6.461+04	9.217-09	3.502-05
18	115	4.023+01	9.019+03	2.188-09	4.242-06	19	103	4.138+01	6.538+05	1.306-07	4.960-04
18	116	4.021+01	2.256+05	5.469-08	1.059-04	19	104	4.137+01	1.457+07	4.569-06	1.734-02
18	117	4.019+01	7.125+04	2.416-08	4.671-05	19	105	4.137+01	2.842+08	1.053-04	3.996-01
18	118	4.006+01	1.651+04	2.384-09	4.566-06	19	106	4.136+01	8.923+05	1.780-07	6.750-04
18	124	3.967+01	1.962+06	6.481-07	1.205-03	19	107	4.136+01	9.390+06	2.408-06	9.130-03
18	125	3.967+01	1.439+07	6.110-06	1.136-02	19	108	4.135+01	3.921+06	1.005-06	3.808-03
18	126	3.967+01	1.875+05	7.961-08	1.480-04	19	109	4.135+01	5.581+07	1.748-05	6.624-02
18	128	3.867+01	1.527+05	6.846-09	1.179-05	19	115	4.024+01	1.802+02	2.431-11	8.491-08
18	129	3.865+01	1.092+05	1.467-08	2.522-05	19	116	4.023+01	6.515+04	8.781-09	3.064-05
18	130	3.853+01	5.927+04	1.319-08	2.248-05	19	117	4.021+01	1.239+04	2.336-09	8.138-06
18	131	3.846+01	1.026+04	1.366-09	2.314-06	19	124	3.969+01	5.327+02	9.783-11	3.278-07
18	136	3.592+01	5.321+04	1.029-08	1.421-05	19	125	3.968+01	4.724+03	1.115-09	3.736-06
18	137	3.592+01	2.936+05	7.950-08	1.097-04	19	126	3.968+01	1.336-00	3.153-13	1.056-09
18	138	3.591+01	1.111+06	3.867-07	5.335-04	19	127	3.968+01	6.089+02	1.756-10	5.880-07
18	139	3.590+01	4.572+03	1.237-09	1.704-06	19	130	3.855+01	5.028+03	6.223-10	1.911-06
18	142	2.940+01	4.946+04	1.282-09	9.702-07	19	136	3.593+01	7.965+02	8.565-11	2.130-07
18	143	2.940+01	9.621+04	7.478-09	5.656-06	19	137	3.593+01	1.177+04	1.771-09	4.404-06

Table 4. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric quadrupole (E2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
19	138	3.592+01	4.437+04	8.585-09	2.133-05	20	108	4.146+01	6.511+07	2.158-05	6.412-02
19	139	3.591+01	4.750+02	7.143-11	1.773-07	20	109	4.146+01	1.008+07	4.082-06	1.213-02
19	144	2.937+01	8.792+06	6.316-07	8.578-04	20	115	4.035+01	2.264+01	3.947-12	1.081-08
19	150	2.859+01	4.862+04	3.311-09	4.149-06	20	116	4.034+01	7.685+03	1.339-09	3.664-06
19	151	2.859+01	7.368+05	7.023-08	8.800-05	20	117	4.031+01	3.092+04	7.535-09	2.058-05
19	152	2.859+01	2.784+06	3.412-07	4.274-04	20	118	4.019+01	3.050+04	3.165-09	8.563-06
19	153	2.858+01	2.271+04	2.163-09	2.708-06	20	124	3.979+01	4.609+04	1.094-08	2.873-05
20	21	7.012+03	1.358-03	7.153-12	1.028-01	20	125	3.979+01	5.123+05	1.563-07	4.105-04
20	22	4.331+03	3.044-03	8.562-12	2.901-02	20	126	3.978+01	2.067+05	6.306-08	1.656-04
20	23	1.624+03	4.321-01	7.325-11	1.309-02	20	127	3.978+01	3.992+06	1.488-06	3.907-03
20	24	9.844+02	1.313-00	1.363-10	5.420-03	20	129	3.876+01	2.445+03	2.360-10	5.730-07
20	25	9.252+02	5.893-01	5.402-11	1.784-03	20	130	3.865+01	9.802+02	1.568-10	3.772-07
20	26	8.880+02	2.269-01	2.681-11	7.827-04	20	131	3.857+01	6.998+01	6.690-12	1.601-08
20	27	5.750+02	1.184+01	2.515-10	1.994-03	20	136	3.602+01	8.931+03	1.241-09	2.417-06
20	31	1.378+02	1.156+03	1.410-09	1.537-04	20	137	3.602+01	1.622+04	3.154-09	6.144-06
20	32	1.343+02	6.415+02	1.239-09	1.251-04	20	138	3.601+01	1.291+04	3.227-09	6.283-06
20	33	1.315+02	2.378-01	2.644-13	2.508-08	20	139	3.600+01	1.769+03	3.436-10	6.682-07
20	38	7.228+01	4.198+06	2.348-06	3.697-02	20	143	2.946+01	6.503+06	3.626-07	3.866-04
20	39	7.201+01	8.683+06	2.893-06	4.504-02	20	144	2.943+01	1.499+06	1.390-07	1.477-04
20	42	6.719+01	1.249+05	3.623-08	4.582-04	20	145	2.941+01	2.328+05	1.293-08	1.371-05
20	52	6.160+01	4.819+06	1.175-06	1.145-02	20	150	2.865+01	6.792+05	5.969-08	5.851-05
20	53	6.143+01	5.082+06	3.697-06	3.574-02	20	151	2.865+01	1.561+06	1.920-07	1.882-04
20	54	6.138+01	1.021+06	4.121-07	3.973-03	20	152	2.865+01	3.474+05	5.495-08	5.385-05
20	55	6.134+01	9.408+06	5.307-06	5.108-02	20	153	2.864+01	2.917+05	3.587-08	3.512-05
20	57	6.115+01	1.222+07	4.892-06	4.664-02	21	22	1.133+04	4.275-06	1.152-13	4.987-03
20	58	6.104+01	2.963+06	1.655-06	1.569-02	21	23	2.114+03	6.339-01	2.549-10	7.171-02
20	59	6.025+01	1.908+06	4.451-07	4.059-03	21	24	1.145+03	3.660-02	7.197-12	3.219-04
20	68	5.776+01	2.604+04	9.301-09	7.472-05	21	25	1.066+03	8.122-01	1.383-10	4.988-03
20	69	5.769+01	1.236+05	4.407-08	3.528-04	21	26	1.017+03	1.103-01	2.394-11	7.492-04
20	70	5.761+01	1.909+05	9.497-08	7.570-04	21	27	6.264+02	1.850+01	6.529-10	4.779-03
20	71	5.701+01	1.002+03	2.093-10	1.617-06	21	30	1.412+02	5.174+02	3.094-10	2.596-05
20	76	4.434+01	1.937+06	4.077-07	1.482-03	21	31	1.405+02	2.544+02	4.518-10	3.733-05
20	77	4.429+01	4.246+06	5.351-07	1.938-03	21	32	1.369+02	1.517+02	4.264-10	3.260-05
20	85	4.240+01	7.268+03	8.393-10	2.666-06	21	33	1.341+02	3.991+02	6.451-10	4.627-05
20	87	4.213+01	1.774+06	2.024-07	6.310-04	21	38	7.303+01	1.600+06	1.279-06	1.484-02
20	88	4.210+01	2.152+06	7.352-07	2.287-03	21	39	7.276+01	7.643+06	3.639-06	4.174-02
20	89	4.208+01	6.457+05	1.225-07	3.804-04	21	41	6.796+01	4.943+05	6.845-08	6.398-04
20	90	4.208+01	4.163+06	1.105-06	3.432-03	21	42	6.784+01	1.430+05	5.918-08	5.501-04
20	91	4.203+01	5.711+06	1.081-06	3.346-03	21	51	6.229+01	7.778+06	9.047-07	6.511-03
20	92	4.201+01	1.506+06	3.985-07	1.232-03	21	52	6.215+01	7.498+05	2.605-07	1.862-03
20	93	4.179+01	8.210+05	9.214-08	2.805-04	21	53	6.198+01	6.420+05	6.654-07	4.718-03
20	102	4.150+01	1.771+06	3.266-07	9.734-04	21	54	6.192+01	2.596+06	1.493-06	1.055-02
20	103	4.150+01	1.638+06	4.228-07	1.260-03	21	55	6.188+01	8.723+06	7.011-06	4.948-02
20	104	4.148+01	2.369+08	9.604-05	2.859-01	21	57	6.169+01	3.504+06	1.999-06	1.398-02
20	106	4.147+01	1.441+07	3.716-06	1.105-02	21	58	6.157+01	3.076+05	2.448-07	1.702-03
20	107	4.147+01	9.452+06	3.133-06	9.318-03	21	59	6.077+01	1.495+07	4.966-06	3.320-02

Table 4. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric quadrupole (E2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
21	68	5.824+01	3.084+05	1.568-07	9.225-04	22	25	1.176+03	1.730-00	2.564-10	1.741-02
21	69	5.817+01	1.542+05	7.822-08	4.585-04	22	26	1.117+03	6.837-02	1.279-11	7.429-04
21	70	5.808+01	5.197+04	3.681-08	2.148-04	22	27	6.631+02	2.553-01	7.213-12	8.768-05
21	71	5.748+01	7.357+04	2.186-08	1.237-04	22	31	1.423+02	6.283+01	8.172-11	9.813-06
21	76	4.462+01	8.625+05	2.574-07	6.811-04	22	32	1.386+02	2.762+02	5.682-10	6.307-05
21	77	4.457+01	4.072+06	7.276-07	1.918-03	22	33	1.357+02	1.271+02	1.503-10	1.564-05
21	84	4.267+01	1.557+05	8.501-09	1.968-05	22	38	7.351+01	4.788+06	2.770-06	4.587-02
21	85	4.265+01	6.473+04	1.059-08	2.448-05	22	39	7.323+01	7.134+06	2.458-06	4.024-02
21	86	4.242+01	2.965+06	1.600-07	3.636-04	22	42	6.825+01	1.625+05	4.863-08	6.444-04
21	87	4.239+01	6.627+05	1.071-07	2.429-04	22	52	6.249+01	7.168+06	1.799-06	1.830-02
21	88	4.235+01	2.974+05	1.440-07	3.257-04	22	53	6.232+01	5.912+06	4.426-06	4.466-02
21	89	4.234+01	1.273+06	3.421-07	7.732-04	22	54	6.226+01	1.255+07	5.212-06	5.245-02
21	90	4.233+01	3.850+06	1.448-06	3.271-03	22	55	6.222+01	3.001+06	1.742-06	1.750-02
21	91	4.229+01	1.642+06	4.401-07	9.912-04	22	57	6.203+01	6.901+05	2.843-07	2.829-03
21	92	4.226+01	1.169+05	4.383-08	9.853-05	22	58	6.191+01	7.635+06	4.387-06	4.340-02
21	93	4.205+01	7.711+06	1.226-06	2.715-03	22	59	6.110+01	2.828+05	6.784-08	6.452-04
21	102	4.175+01	1.054+07	2.754-06	5.967-03	22	68	5.854+01	5.308+04	1.948-08	1.629-04
21	103	4.174+01	2.325+06	8.502-07	1.842-03	22	69	5.847+01	1.871+05	6.851-08	5.709-04
21	106	4.172+01	7.261+07	2.653-05	5.737-02	22	70	5.838+01	9.627+04	4.920-08	4.082-04
21	107	4.172+01	4.036+06	1.896-06	4.099-03	22	71	5.777+01	1.499+05	3.215-08	2.585-04
21	108	4.171+01	2.051+08	9.627-05	2.080-01	22	76	4.480+01	2.637+06	5.667-07	2.124-03
21	115	4.058+01	6.845+04	1.690-08	3.364-05	22	77	4.474+01	4.230+06	5.442-07	2.032-03
21	116	4.057+01	3.582+04	8.839-09	1.758-05	22	85	4.281+01	1.276+05	1.503-08	4.919-05
21	117	4.055+01	8.663+03	2.989-09	5.934-06	22	87	4.254+01	3.205+06	3.728-07	1.197-03
21	118	4.042+01	1.267+04	1.861-09	3.660-06	22	88	4.251+01	2.750+06	9.578-07	3.068-03
21	124	4.002+01	9.993+05	3.359-07	6.410-04	22	89	4.249+01	6.320+06	1.222-06	3.911-03
21	125	4.001+01	5.247+04	2.267-08	4.326-05	22	90	4.249+01	1.562+06	4.227-07	1.352-03
21	126	4.001+01	6.215+06	2.685-06	5.122-03	22	91	4.245+01	4.884+05	9.422-08	3.004-04
21	128	3.899+01	7.335+01	3.344-12	5.904-09	22	92	4.242+01	3.916+06	1.056-06	3.362-03
21	129	3.897+01	4.865+03	6.647-10	1.172-06	22	93	4.220+01	1.518+05	1.737-08	5.443-05
21	130	3.886+01	6.769-02	1.532-14	2.678-11	22	102	4.190+01	1.946+06	3.659-07	1.122-03
21	131	3.878+01	1.870+03	2.530-10	4.396-07	22	103	4.190+01	1.309+07	3.446-06	1.057-02
21	136	3.620+01	1.640+03	3.222-10	4.554-07	22	104	4.188+01	2.853+07	1.179-05	3.613-02
21	137	3.620+01	3.028+04	8.328-09	1.177-05	22	106	4.188+01	4.836+06	1.271-06	3.892-03
21	138	3.620+01	1.621+02	5.732-11	8.095-08	22	107	4.187+01	7.952+07	2.687-05	8.225-02
21	139	3.618+01	4.692+03	1.289-09	1.819-06	22	108	4.186+01	1.430+05	4.831-08	1.478-04
21	142	2.959+01	3.951+06	1.037-07	8.002-05	22	109	4.186+01	2.121+08	8.755-05	2.677-01
21	143	2.958+01	1.135+06	8.937-08	6.892-05	22	115	4.073+01	2.364+04	4.199-09	1.183-05
21	144	2.955+01	1.265+05	1.657-08	1.273-05	22	116	4.072+01	5.023+04	8.916-09	2.509-05
21	145	2.953+01	1.604+05	1.258-08	9.647-06	22	117	4.069+01	3.264+04	8.104-09	2.276-05
21	150	2.876+01	8.906+05	1.105-07	7.830-05	22	118	4.056+01	2.405+04	2.542-09	7.073-06
21	151	2.876+01	2.055+05	3.569-08	2.530-05	22	124	4.016+01	2.578+04	6.233-09	1.683-05
21	152	2.876+01	1.903+03	4.249-10	3.011-07	22	125	4.016+01	1.790+05	5.564-08	1.502-04
21	153	2.876+01	2.798+04	4.856-09	3.439-06	22	126	4.015+01	4.637+04	1.441-08	3.889-05
22	23	2.599+03	2.180-03	9.463-13	6.927-04	22	127	4.015+01	7.686+05	2.919-07	7.876-04
22	24	1.274+03	4.808-02	8.357-12	7.204-04	22	129	3.911+01	5.017+02	4.930-11	1.229-07

Table 4. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric quadrupole (E2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
22	130	3.899+01	4.308+02	7.015-11	1.734-07	23	116	4.136+01	9.142+04	3.908-08	4.942-05
22	131	3.892+01	3.235+02	3.148-11	7.738-08	23	117	4.134+01	2.262+05	1.352-07	1.707-04
22	136	3.632+01	1.663+02	2.350-11	4.694-08	23	118	4.120+01	4.500+05	1.145-07	1.432-04
22	137	3.632+01	4.786+03	9.465-10	1.890-06	23	124	4.079+01	4.678+07	2.723-05	3.302-02
22	138	3.631+01	2.158+04	5.484-09	1.095-05	23	129	3.971+01	3.210+04	7.586-09	8.486-06
22	139	3.630+01	3.046+03	6.015-10	1.199-06	23	130	3.959+01	4.409+03	1.726-09	1.914-06
22	143	2.966+01	4.374+04	2.472-09	2.690-06	23	131	3.951+01	4.328+04	1.013-08	1.116-05
22	144	2.963+01	4.777+04	4.491-09	4.870-06	23	136	3.683+01	1.114+05	3.777-08	3.373-05
22	145	2.961+01	2.384+06	1.343-07	1.453-04	23	137	3.683+01	3.224+01	1.530-11	1.366-08
22	150	2.884+01	2.535+04	2.257-09	2.257-06	23	139	3.681+01	3.978+05	1.886-07	1.681-04
22	151	2.884+01	1.087+04	1.356-09	1.355-06	23	143	3.000+01	2.131+03	2.876-10	1.388-07
22	152	2.884+01	1.788+01	2.865-12	2.865-09	23	144	2.997+01	3.185+03	7.148-10	3.438-07
22	153	2.883+01	7.142+05	8.899-08	8.890-05	23	145	2.995+01	3.082+04	4.144-09	1.989-06
23	24	2.499+03	7.755-03	1.210-11	3.373-03	23	150	2.916+01	1.335-00	2.836-13	1.257-10
23	25	2.150+03	2.743-02	3.167-11	5.620-03	23	151	2.916+01	7.312+03	2.175-09	9.638-07
23	26	1.959+03	2.732-02	3.666-11	4.921-03	23	153	2.915+01	1.708+05	5.076-08	2.247-05
23	27	8.902+02	5.881-02	6.986-12	8.807-05	24	25	1.538+04	3.089-06	1.095-13	1.186-02
23	31	1.505+02	1.898+01	6.445-11	3.927-06	24	26	9.060+03	1.235-04	2.128-12	4.713-02
23	32	1.464+02	2.573+01	1.378-10	7.729-06	24	27	1.383+03	2.701-00	4.645-10	3.658-02
23	33	1.431+02	1.255+02	3.855-10	2.020-05	24	30	1.611+02	1.132+03	8.807-10	1.097-04
23	38	7.564+01	2.117+05	3.027-07	2.341-03	24	31	1.602+02	3.696+02	8.529-10	1.044-04
23	39	7.535+01	5.214+06	4.438-06	3.393-02	24	32	1.555+02	1.334+01	4.836-11	5.417-06
23	42	7.009+01	9.464+05	6.969-07	4.287-03	24	33	1.518+02	1.682+01	3.488-11	3.635-06
23	52	6.403+01	1.645+06	1.011-06	4.743-03	24	38	7.801+01	2.260+04	2.062-08	2.914-04
23	54	6.379+01	1.021+06	1.038-06	4.817-03	24	39	7.769+01	1.061+05	5.759-08	8.044-04
23	55	6.375+01	7.784+05	1.107-06	5.123-03	24	41	7.225+01	1.629+07	2.549-06	2.863-02
23	57	6.354+01	8.516+06	8.592-06	3.939-02	24	42	7.211+01	5.266+06	2.463-06	2.750-02
23	58	6.342+01	8.773+02	1.234-09	5.626-06	24	51	6.587+01	1.532+05	1.993-08	1.696-04
23	59	6.257+01	7.890+06	4.631-06	2.028-02	24	52	6.571+01	7.291+04	2.832-08	2.394-04
23	68	5.989+01	6.812+05	6.104-07	2.343-03	24	53	6.552+01	8.025+03	9.298-09	7.789-05
23	69	5.982+01	6.044+05	5.403-07	2.066-03	24	54	6.546+01	1.338+05	8.597-08	7.182-04
23	70	5.973+01	3.272+05	4.083-07	1.554-03	24	55	6.542+01	1.211+05	1.088-07	9.071-04
23	71	5.909+01	1.121+06	5.865-07	2.162-03	24	57	6.520+01	1.107+04	7.054-09	5.823-05
23	76	4.558+01	1.674+05	8.689-08	1.470-04	24	58	6.507+01	2.770+04	2.462-08	2.020-04
23	77	4.553+01	4.675+06	1.453-06	2.449-03	24	59	6.418+01	6.506+03	2.411-09	1.898-05
23	85	4.353+01	3.422+04	9.720-09	1.433-05	24	68	6.136+01	1.666+07	9.402-06	6.468-02
23	87	4.325+01	7.606+05	2.133-07	3.085-04	24	69	6.128+01	2.622+06	1.476-06	1.012-02
23	89	4.320+01	5.879+05	2.742-07	3.950-04	24	70	6.119+01	4.417+06	3.471-06	2.368-02
23	90	4.320+01	5.287+05	3.451-07	4.970-04	24	71	6.052+01	9.409+06	3.100-06	2.046-02
23	91	4.315+01	5.841+06	2.717-06	3.902-03	24	76	4.643+01	2.466+04	7.970-09	2.376-05
23	92	4.312+01	1.110+04	7.223-09	1.035-05	24	77	4.637+01	1.858+05	3.593-08	1.067-04
23	93	4.290+01	4.885+06	1.348-06	1.901-03	24	84	4.433+01	7.161+06	4.219-07	1.094-03
23	102	4.259+01	7.732+06	3.504-06	4.837-03	24	85	4.430+01	2.354+06	4.156-07	1.076-03
23	103	4.258+01	6.249+07	3.964-05	5.470-02	24	86	4.405+01	4.896+05	2.849-08	7.251-05
23	106	4.256+01	9.750+07	6.178-05	8.511-02	24	87	4.401+01	1.268+04	2.210-09	5.612-06
23	115	4.138+01	1.262+05	5.398-08	6.833-05	24	88	4.398+01	5.426+03	2.832-09	7.173-06

Table 4. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric quadrupole (E2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
24	89	4.396+01	3.594+04	1.041-08	2.635-05	25	54	6.574+01	1.102+05	7.143-08	6.045-04
24	90	4.396+01	1.229+05	4.982-08	1.260-04	25	55	6.570+01	4.602+04	4.169-08	3.520-04
24	91	4.391+01	6.149+04	1.777-08	4.481-05	25	57	6.548+01	1.700+05	1.093-07	9.137-04
24	92	4.388+01	8.230+03	3.326-09	8.370-06	25	58	6.535+01	4.508+05	4.041-07	3.358-03
24	93	4.365+01	3.072+05	5.265-08	1.304-04	25	59	6.445+01	1.838+04	6.866-09	5.473-05
24	102	4.333+01	9.701+04	2.730-08	6.613-05	25	68	6.160+01	1.209+06	6.877-07	4.788-03
24	103	4.332+01	1.234+05	4.862-08	1.177-04	25	69	6.153+01	1.722+07	9.771-06	6.778-02
24	106	4.330+01	1.811+06	7.127-07	1.723-03	25	70	6.143+01	4.146+06	3.284-06	2.267-02
24	107	4.329+01	3.243+05	1.640-07	3.964-04	25	71	6.076+01	9.223+06	3.062-06	2.045-02
24	108	4.329+01	4.386+06	2.218-06	5.357-03	25	76	4.657+01	2.413+05	7.846-08	2.360-04
24	115	4.207+01	6.941+06	1.842-06	4.086-03	25	77	4.651+01	1.211+05	2.357-08	7.065-05
24	116	4.206+01	1.375+06	3.647-07	8.080-04	25	84	4.446+01	6.964+06	4.126-07	1.080-03
24	117	4.203+01	1.890+06	7.010-07	1.551-03	25	85	4.443+01	2.290+06	4.066-07	1.062-03
24	118	4.190+01	4.516+06	7.130-07	1.562-03	25	86	4.418+01	1.589+06	9.298-08	2.387-04
24	124	4.147+01	2.924+07	1.055-05	2.241-02	25	87	4.414+01	4.304+05	7.543-08	1.932-04
24	125	4.146+01	2.365+06	1.097-06	2.329-03	25	88	4.410+01	1.191+05	6.251-08	1.597-04
24	126	4.146+01	2.506+08	1.162-04	2.467-01	25	89	4.409+01	1.363+03	3.972-10	1.013-06
24	128	4.037+01	4.585+02	2.240-11	4.389-08	25	90	4.408+01	1.323+04	5.394-09	1.376-05
24	129	4.035+01	1.458+03	2.136-10	4.177-07	25	91	4.403+01	8.649+04	2.514-08	6.394-05
24	130	4.022+01	8.179+02	1.984-10	3.846-07	25	92	4.401+01	2.650+05	1.077-07	2.733-04
24	131	4.015+01	6.143+03	8.906-10	1.716-06	25	93	4.377+01	1.520+05	2.621-08	6.546-05
24	136	3.739+01	2.527+04	5.295-09	8.241-06	25	102	4.345+01	1.608+06	4.549-07	1.111-03
24	137	3.738+01	7.632+01	2.239-11	3.483-08	25	103	4.344+01	4.567+06	1.809-06	4.418-03
24	138	3.738+01	6.473+03	2.440-09	3.795-06	25	106	4.342+01	1.187+06	4.696-07	1.145-03
24	139	3.736+01	1.969+04	5.768-09	8.959-06	25	107	4.342+01	8.143+06	4.142-06	1.010-02
24	142	3.037+01	6.307+06	1.745-07	1.456-04	25	108	4.341+01	1.093+04	5.557-09	1.354-05
24	143	3.037+01	1.750+06	1.452-07	1.211-04	25	115	4.219+01	3.862+05	1.030-07	2.305-04
24	144	3.033+01	1.848+05	2.549-08	2.119-05	25	116	4.217+01	7.822+06	2.086-06	4.660-03
24	145	3.031+01	2.933+05	2.424-08	2.011-05	25	117	4.215+01	1.841+06	6.864-07	1.531-03
24	150	2.951+01	1.234+06	1.610-07	1.232-04	25	118	4.201+01	4.526+06	7.186-07	1.587-03
24	151	2.950+01	4.725+05	8.633-08	6.604-05	25	124	4.158+01	2.866+07	1.040-05	2.226-02
24	152	2.950+01	1.197+04	2.811-09	2.150-06	25	125	4.158+01	2.362+08	1.102-04	2.359-01
24	153	2.950+01	2.701+03	4.932-10	3.769-07	25	126	4.157+01	8.913+06	4.157-06	8.894-03
25	26	2.205+04	1.246-06	1.272-13	4.063-02	25	128	4.047+01	8.667+04	4.257-09	8.405-06
25	27	1.520+03	1.682-00	3.494-10	3.650-02	25	129	4.045+01	3.020+04	4.446-09	8.765-06
25	30	1.628+02	3.893+01	3.094-11	3.977-06	25	130	4.033+01	1.377+04	3.358-09	6.561-06
25	31	1.619+02	5.911-01	1.393-12	1.759-07	25	131	4.025+01	2.426+04	3.535-09	6.865-06
25	32	1.571+02	3.975+01	1.471-10	1.699-05	25	136	3.748+01	8.531+04	1.796-08	2.816-05
25	33	1.533+02	1.152+02	2.436-10	2.616-05	25	137	3.747+01	1.964+05	5.790-08	9.074-05
25	38	7.840+01	2.332+05	2.149-07	3.085-03	25	138	3.747+01	2.622+05	9.934-08	1.556-04
25	39	7.809+01	6.389+04	3.504-08	4.969-04	25	139	3.745+01	4.806+04	1.415-08	2.214-05
25	41	7.259+01	1.558+07	2.462-06	2.804-02	25	142	3.043+01	2.273+04	6.314-10	5.300-07
25	42	7.245+01	5.054+06	2.386-06	2.702-02	25	143	3.043+01	5.756+04	4.794-09	4.023-06
25	51	6.615+01	1.596+06	2.094-07	1.805-03	25	144	3.039+01	1.971+03	2.729-10	2.282-07
25	52	6.600+01	2.783+05	1.090-07	9.333-04	25	145	3.037+01	6.780+03	5.626-10	4.693-07
25	53	6.580+01	1.489+05	1.739-07	1.476-03	25	150	2.956+01	2.054+04	2.691-09	2.071-06

Table 4. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric quadrupole (E2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
25	151	2.956+01	4.181+03	7.669-10	5.901-07	26	129	4.053+01	4.056+02	4.281-11	1.188-07
25	152	2.956+01	1.359+05	3.204-08	2.465-05	26	130	4.040+01	1.328+03	2.322-10	6.386-07
25	153	2.955+01	2.835+03	5.198-10	3.995-07	26	131	4.032+01	6.109+01	6.382-12	1.745-08
26	27	1.632+03	6.022-02	1.030-11	1.867-03	26	136	3.754+01	7.494+03	1.131-09	2.495-06
26	31	1.631+02	2.525+02	4.312-10	7.793-05	26	137	3.754+01	2.313+04	4.887-09	1.078-05
26	32	1.582+02	3.354+01	8.993-11	1.485-05	26	138	3.753+01	1.129+04	3.065-09	6.756-06
26	33	1.544+02	3.650+02	5.592-10	8.583-05	26	139	3.752+01	5.312+03	1.121-09	2.468-06
26	38	7.868+01	1.122+05	7.441-08	1.511-03	26	143	3.047+01	6.753+05	4.029-08	4.752-05
26	39	7.836+01	4.820+03	1.902-09	3.816-05	26	144	3.044+01	6.271+05	6.220-08	7.312-05
26	42	7.269+01	1.534+07	5.207-06	8.337-02	26	145	3.041+01	3.746+06	2.227-07	2.612-04
26	52	6.619+01	3.090+05	8.699-08	1.052-03	26	150	2.960+01	2.750+05	2.580-08	2.791-05
26	53	6.600+01	1.486+05	1.247-07	1.495-03	26	151	2.960+01	3.015+05	3.960-08	4.283-05
26	54	6.594+01	2.972+05	1.384-07	1.654-03	26	152	2.960+01	2.252+05	3.804-08	4.113-05
26	55	6.589+01	2.599+03	1.692-09	2.018-05	26	153	2.959+01	8.404+05	1.103-07	1.192-04
26	57	6.568+01	5.064+04	2.339-08	2.762-04	27	31	1.811+02	1.683+01	8.277-11	8.791-06
26	58	6.554+01	1.754+04	1.130-08	1.326-04	27	32	1.752+02	6.369-00	4.886-11	4.698-06
26	59	6.464+01	6.002+04	1.611-08	1.814-04	27	33	1.706+02	2.625+02	1.145-09	1.015-04
26	68	6.178+01	6.998+06	2.860-06	2.812-02	27	38	8.267+01	1.038+04	1.772-08	1.789-04
26	69	6.170+01	5.237+06	2.135-06	2.091-02	27	39	8.232+01	1.404+06	1.426-06	1.422-02
26	70	6.160+01	2.122+07	1.208-05	1.177-01	27	42	7.607+01	5.617+06	4.874-06	3.834-02
26	71	6.092+01	1.853+06	4.420-07	4.167-03	27	52	6.899+01	5.791+04	4.132-08	2.425-04
26	76	4.667+01	1.258+05	2.935-08	1.244-04	27	54	6.872+01	5.719+05	6.748-07	3.912-03
26	77	4.661+01	4.911+04	6.855-09	2.894-05	27	55	6.867+01	3.321+01	5.478-11	3.170-07
26	85	4.452+01	7.512+06	9.566-07	3.519-03	27	57	6.843+01	2.080+06	2.433-06	1.393-02
26	87	4.423+01	4.356+05	5.476-08	1.975-04	27	58	6.829+01	3.908+04	6.375-08	3.627-04
26	88	4.419+01	1.093+05	4.115-08	1.481-04	27	59	6.730+01	3.535+05	2.401-07	1.308-03
26	89	4.418+01	4.997+04	1.044-08	3.753-05	27	68	6.421+01	5.807+06	5.982-06	2.829-02
26	90	4.417+01	5.256+04	1.538-08	5.524-05	27	69	6.412+01	4.548+06	4.673-06	2.202-02
26	91	4.412+01	1.104+05	2.303-08	8.248-05	27	70	6.402+01	3.567+05	5.114-07	2.398-03
26	92	4.410+01	5.498+03	1.603-09	5.728-06	27	71	6.329+01	7.876+06	4.729-06	2.142-02
26	93	4.386+01	7.891+04	9.753-09	3.431-05	27	76	4.804+01	1.517+04	8.747-09	1.733-05
26	102	4.353+01	3.302+04	6.702-09	2.306-05	27	77	4.798+01	3.229+06	1.115-06	2.200-03
26	103	4.353+01	7.061+04	2.006-08	6.899-05	27	85	4.577+01	6.202+06	1.948-06	3.337-03
26	104	4.352+01	2.099+06	9.366-07	3.218-03	27	87	4.546+01	6.442+04	1.996-08	3.351-05
26	106	4.351+01	3.508+05	9.954-08	3.417-04	27	89	4.540+01	9.445+05	4.865-07	8.138-04
26	107	4.350+01	9.033+05	3.295-07	1.131-03	27	90	4.540+01	7.417+03	5.348-09	8.941-06
26	108	4.349+01	8.062+05	2.940-07	1.008-03	27	91	4.535+01	3.166+06	1.627-06	2.711-03
26	109	4.349+01	1.059+06	4.721-07	1.619-03	27	92	4.532+01	6.720+04	4.828-08	8.030-05
26	115	4.227+01	3.432+06	6.567-07	2.068-03	27	93	4.507+01	1.128+06	3.435-07	5.619-04
26	116	4.226+01	2.224+06	4.251-07	1.337-03	27	102	4.473+01	4.078+05	2.039-07	3.260-04
26	117	4.223+01	9.921+06	2.653-06	8.329-03	27	103	4.472+01	3.047+07	2.132-05	3.408-02
26	118	4.209+01	9.361+05	1.065-07	3.313-04	27	106	4.470+01	1.575+07	1.101-05	1.756-02
26	124	4.166+01	3.834+06	9.974-07	3.006-03	27	115	4.340+01	4.778+06	2.248-06	3.282-03
26	125	4.165+01	2.952+07	9.872-06	2.975-02	27	116	4.338+01	3.205+06	1.507-06	2.198-03
26	126	4.165+01	1.654+07	5.529-06	1.666-02	27	117	4.335+01	2.312+05	1.520-07	2.213-04
26	127	4.165+01	2.764+08	1.129-04	3.401-01	27	118	4.320+01	6.028+06	1.687-06	2.431-03

Table 4. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric quadrupole (E2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
27	124	4.275+01	1.596+08	1.020-04	1.424-01	28	114	4.958+01	3.834-04	1.413-16	3.076-13
27	129	4.156+01	1.563+04	4.048-09	5.192-06	28	120	4.869+01	4.346+03	3.605-09	7.439-06
27	130	4.143+01	1.728+03	7.412-10	9.418-07	28	121	4.869+01	3.834+05	3.179-07	6.555-04
27	131	4.135+01	2.904+05	7.441-08	9.398-05	28	123	4.867+01	1.546+05	9.150-08	1.885-04
27	136	3.842+01	7.506+04	2.769-08	2.807-05	28	132	4.429+01	1.806+08	5.312-05	8.246-02
27	137	3.842+01	1.275+05	6.585-08	6.674-05	28	133	4.428+01	1.799+08	8.813-05	1.367-01
27	139	3.840+01	1.458+06	7.518-07	7.606-04	28	134	4.426+01	1.801+08	1.234-04	1.912-01
27	143	3.105+01	2.512+04	3.630-09	1.942-06	28	135	4.399+01	5.454+05	2.637-07	4.009-04
27	144	3.101+01	5.303+01	1.275-11	6.794-09	28	140	3.467+01	9.315-02	1.679-14	1.251-11
27	145	3.099+01	1.688+05	2.431-08	1.293-05	28	146	3.330+01	9.391+07	1.561-05	1.030-02
27	150	3.015+01	3.766+03	8.552-10	4.188-07	28	147	3.329+01	9.360+07	2.592-05	1.710-02
27	151	3.015+01	8.399+04	2.671-08	1.308-05	28	148	3.329+01	9.398+07	3.643-05	2.401-02
27	153	3.014+01	7.038+05	2.237-07	1.094-04	28	149	3.321+01	3.316+05	9.141-08	5.984-05
28	34	1.597+02	3.636+05	1.390-06	1.011-01	28	154	3.292+01	1.343-00	5.092-13	3.247-10
28	35	1.594+02	3.668+05	2.328-06	1.684-01	29	35	1.742+02	4.191+02	9.533-09	3.001-04
28	36	1.589+02	3.745+05	3.305-06	2.367-01	29	37	1.620+02	3.624+05	7.128-06	1.805-01
28	37	1.491+02	9.251+02	5.138-09	3.042-04	29	43	1.018+02	2.176+04	1.689-07	1.061-03
28	40	9.720+01	2.167+02	3.069-10	5.036-06	29	46	1.004+02	2.182+04	1.648-07	9.935-04
28	43	9.653+01	8.490+03	1.976-08	3.176-04	29	50	9.141+01	3.309+04	2.073-07	9.428-04
28	44	9.603+01	1.518+04	4.898-08	7.750-04	29	63	8.458+01	7.441+03	3.991-08	1.438-04
28	45	9.572+01	3.176+03	4.363-09	6.837-05	29	65	8.436+01	1.886+04	1.006-07	3.596-04
28	46	9.529+01	3.673-01	8.334-13	1.288-08	29	75	7.770+01	2.386+04	1.080-07	3.017-04
28	48	8.802+01	2.315+04	2.690-08	3.278-04	29	79	5.557+01	1.448+05	3.352-07	3.426-04
28	49	8.729+01	3.215+03	3.672-09	4.365-05	29	82	5.536+01	1.356+05	3.116-07	3.149-04
28	50	8.715+01	1.512+04	2.870-08	3.395-04	29	95	5.272+01	5.814+03	1.211-08	1.057-05
28	60	8.100+01	5.771+05	5.677-07	5.391-03	29	99	5.265+01	6.651+03	1.382-08	1.202-05
28	63	8.093+01	4.474+05	7.321-07	6.934-03	29	112	5.245+01	2.251+05	4.641-07	3.989-04
28	64	8.075+01	2.666+05	6.080-07	5.720-03	29	123	4.997+01	5.214+03	9.761-09	7.256-06
28	65	8.072+01	1.740+04	2.834-08	2.663-04	29	133	4.535+01	5.516+05	8.504-07	4.725-04
28	66	8.070+01	1.974+04	4.498-08	4.224-04	29	135	4.504+01	1.765+08	2.685-04	1.461-01
28	72	7.472+01	6.089+02	1.189-09	8.863-06	29	147	3.390+01	3.958+05	3.409-07	7.908-05
28	74	7.461+01	4.737+05	9.225-07	6.847-03	29	149	3.381+01	1.158+08	9.924-05	2.285-02
28	75	7.461+01	1.838+05	2.556-07	1.897-03	30	32	4.486+03	1.106-02	1.669-10	8.976-02
28	78	5.408+01	1.814+01	7.953-12	2.247-08	30	38	1.512+02	4.559+01	7.817-10	1.610-05
28	79	5.397+01	1.089+03	7.926-10	2.226-06	30	54	1.103+02	1.645+03	1.499-08	1.197-04
28	80	5.389+01	2.909+03	2.955-09	8.261-06	30	57	1.095+02	8.606+02	7.739-09	6.058-05
28	81	5.384+01	4.854+02	2.109-10	5.882-07	30	68	9.910+01	2.496+04	1.838-07	1.066-03
28	82	5.377+01	3.479-00	2.514-12	6.984-09	30	69	9.891+01	2.529+04	1.854-07	1.069-03
28	94	5.130+01	3.007+05	1.187-07	2.862-04	30	76	6.523+01	2.762+04	8.810-08	1.456-04
28	95	5.128+01	2.442+05	1.604-07	3.865-04	30	89	6.046+01	9.432+03	2.584-08	3.402-05
28	98	5.123+01	1.473+05	1.352-07	3.249-04	30	91	6.036+01	2.076+02	5.670-10	7.428-07
28	99	5.121+01	3.546+03	2.324-09	5.577-06	30	102	5.926+01	7.597+03	2.000-08	2.480-05
28	100	5.121+01	1.863+03	1.709-09	4.102-06	30	115	5.695+01	2.791+04	6.785-08	7.463-05
28	110	5.117+01	1.510+04	5.927-09	1.419-05	30	116	5.692+01	3.407+03	8.274-09	9.088-06
28	111	5.108+01	2.200+03	8.605-10	2.049-06	30	130	5.361+01	1.841+07	3.966-05	3.640-02
28	112	5.102+01	3.937+03	2.561-09	6.078-06	30	136	4.868+01	1.558+08	2.767-04	1.902-01

Table 4. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric quadrupole (E2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
30	144	3.737+01	1.056+07	1.106-05	3.437-03	32	33	6.384+03	7.764-04	2.846-12	2.205-02
30	150	3.612+01	2.355+07	2.303-05	6.466-03	32	38	1.565+02	1.120+02	4.114-10	4.697-05
31	32	5.363+03	9.123-03	6.556-11	1.807-01	32	39	1.552+02	8.044+01	1.744-10	1.944-05
31	33	2.915+03	1.036-01	1.319-10	5.834-02	32	41	1.349+02	1.881+02	1.026-10	7.509-06
31	38	1.521+02	9.958+01	5.754-10	3.616-05	32	42	1.344+02	8.674+01	1.410-10	1.021-05
31	39	1.509+02	1.557+02	5.314-10	3.262-05	32	51	1.143+02	4.167+04	1.631-08	7.247-04
31	42	1.312+02	4.743+01	1.223-10	4.931-06	32	52	1.138+02	3.684+04	4.291-08	1.883-03
31	52	1.114+02	3.110+03	5.790-09	1.432-04	32	53	1.132+02	4.258+04	1.473-07	6.369-03
31	54	1.107+02	6.568+03	2.012-08	4.878-04	32	54	1.131+02	2.474+04	4.740-08	2.039-03
31	55	1.106+02	1.548+04	6.623-08	1.601-03	32	55	1.129+02	1.560+04	4.175-08	1.790-03
31	57	1.100+02	1.017+04	3.073-08	7.303-04	32	57	1.123+02	5.155+03	9.742-09	4.106-04
31	58	1.096+02	3.886+03	1.633-08	3.841-04	32	58	1.119+02	1.196+04	3.141-08	1.310-03
31	59	1.071+02	1.883+04	3.237-08	7.104-04	32	59	1.093+02	2.205+01	2.369-11	9.205-07
31	68	9.946+01	2.367+04	5.850-08	1.029-03	32	68	1.013+02	1.635+02	2.517-10	7.803-06
31	69	9.926+01	1.348+04	3.318-08	5.799-04	32	69	1.011+02	1.040+03	1.595-09	4.913-05
31	70	9.902+01	2.082+04	7.141-08	1.239-03	32	70	1.009+02	8.941+02	1.910-09	5.839-05
31	71	9.727+01	5.723+03	8.118-09	1.335-04	32	71	9.907+01	5.128+02	4.527-10	1.311-05
31	76	6.538+01	5.588+04	5.969-08	2.981-04	32	76	6.619+01	4.953+04	3.253-08	2.810-04
31	77	6.527+01	5.720+03	3.653-09	1.815-05	32	77	6.607+01	3.944+04	1.549-08	1.330-04
31	85	6.124+01	5.216+04	2.933-08	1.204-04	32	84	6.200+01	2.861+05	3.297-08	2.340-04
31	87	6.069+01	1.035+04	5.714-09	2.283-05	32	85	6.195+01	1.355+05	4.679-08	3.313-04
31	89	6.059+01	6.042+03	5.543-09	2.203-05	32	86	6.146+01	6.585+03	7.458-10	5.156-06
31	90	6.058+01	1.782+03	2.288-09	9.091-06	32	87	6.139+01	3.267+02	1.108-10	7.631-07
31	91	6.049+01	5.169+03	4.727-09	1.870-05	32	88	6.132+01	1.601+04	1.625-08	1.115-04
31	92	6.044+01	8.425+03	1.077-08	4.247-05	32	89	6.128+01	3.634+03	2.046-09	1.403-05
31	93	6.000+01	1.012+04	5.463-09	2.108-05	32	90	6.127+01	1.195+04	9.419-09	6.454-05
31	102	5.939+01	5.912+03	5.211-09	1.951-05	32	91	6.119+01	1.106+04	6.207-09	4.234-05
31	103	5.939+01	5.048+02	6.228-10	2.331-06	32	92	6.113+01	2.646+04	2.075-08	1.412-04
31	106	5.934+01	5.905+03	7.273-09	2.715-05	32	93	6.068+01	4.894+03	1.621-09	1.078-05
31	115	5.706+01	6.061+03	4.932-09	1.638-05	32	102	6.006+01	4.578+02	2.476-10	1.597-06
31	116	5.704+01	5.710+03	4.642-09	1.539-05	32	103	6.005+01	1.406+03	1.065-09	6.865-06
31	117	5.699+01	3.325+04	3.778-08	1.250-04	32	106	6.000+01	3.284+02	2.482-10	1.597-06
31	118	5.674+01	2.685+04	1.296-08	4.228-05	32	107	6.000+01	3.040+03	2.953-09	1.899-05
31	124	5.595+01	1.181+03	1.294-09	4.049-06	32	108	5.998+01	3.546+01	3.442-11	2.212-07
31	129	5.393+01	9.536+06	4.158-06	1.166-02	32	115	5.768+01	4.724+02	2.356-10	1.346-06
31	130	5.372+01	3.689+07	2.659-05	7.365-02	32	116	5.765+01	5.217+04	2.599-08	1.483-04
31	131	5.357+01	2.076+07	8.935-06	2.455-02	32	117	5.760+01	1.593+03	1.109-09	6.315-06
31	136	4.877+01	1.384+08	8.224-05	1.705-01	32	118	5.734+01	4.925+04	1.457-08	8.179-05
31	137	4.876+01	2.232+08	1.857-04	3.848-01	32	124	5.654+01	7.665+01	5.144-11	2.769-07
31	139	4.873+01	1.018+07	8.454-06	1.748-02	32	125	5.654+01	4.533+02	3.910-10	2.104-06
31	143	3.747+01	5.152+06	1.085-06	1.020-03	32	126	5.653+01	3.617-00	3.119-12	1.678-08
31	144	3.742+01	2.110+07	7.384-06	6.914-03	32	128	5.452+01	9.147+07	8.151-06	3.934-02
31	145	3.739+01	1.297+07	2.717-06	2.537-03	32	129	5.448+01	5.950+07	1.588-05	7.650-02
31	150	3.617+01	2.073+07	6.777-06	5.730-03	32	130	5.426+01	3.183+07	1.405-05	6.682-02
31	151	3.617+01	3.337+07	1.527-05	1.291-02	32	131	5.411+01	8.967+06	2.362-06	1.115-02
31	153	3.615+01	2.055+06	9.396-07	7.934-04	32	136	4.922+01	2.158+07	7.837-06	2.783-02

Table 4. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric quadrupole (E2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
32	137	4.921+01	1.041+08	5.290-05	1.878-01	33	139	4.956+01	3.051+08	2.621-04	5.700-01
32	138	4.920+01	3.242+08	2.118-04	7.512-01	33	143	3.796+01	1.347+07	2.911-06	2.845-03
32	139	4.918+01	3.899+06	1.979-06	7.008-03	33	144	3.791+01	2.437+06	8.749-07	8.516-04
32	142	3.775+01	5.112+07	2.184-06	3.497-03	33	145	3.787+01	3.910+07	8.407-06	8.160-03
32	143	3.774+01	3.332+07	4.269-06	6.832-03	33	150	3.662+01	2.181+06	7.310-07	6.417-04
32	144	3.768+01	1.798+07	3.829-06	6.102-03	33	151	3.662+01	3.850+05	1.806-07	1.585-04
32	145	3.765+01	5.100+06	6.503-07	1.033-03	33	153	3.661+01	4.577+07	2.146-05	1.881-02
32	150	3.642+01	3.087+06	6.138-07	8.827-04	34	35	9.025+04	2.796-09	5.691-15	7.476-02
32	151	3.641+01	1.501+07	4.179-06	6.009-03	34	36	3.107+04	4.760-08	1.607-14	8.614-03
32	152	3.641+01	4.657+07	1.666-05	2.395-02	34	37	2.251+03	4.984-04	6.312-13	1.287-04
32	153	3.640+01	4.690+05	1.304-07	1.873-04	34	40	2.485+02	1.054+03	9.760-09	2.675-03
33	38	1.604+02	1.614+01	1.038-10	7.660-06	34	43	2.441+02	1.891+01	2.815-10	7.317-05
33	39	1.591+02	3.084+02	1.171-09	8.428-05	34	44	2.409+02	1.719-00	3.490-11	8.722-06
33	42	1.373+02	6.797+02	1.922-09	8.895-05	34	45	2.390+02	1.567+02	1.342-09	3.274-04
33	52	1.159+02	5.147+01	1.036-10	2.879-06	34	46	2.363+02	3.034+02	4.234-09	9.988-04
33	54	1.151+02	5.928+02	1.962-09	5.343-05	34	48	1.962+02	6.788+01	3.916-10	5.284-05
33	55	1.149+02	2.359+02	1.091-09	2.960-05	34	49	1.926+02	1.629+03	9.060-09	1.156-03
33	57	1.143+02	1.122+03	3.662-09	9.767-05	34	50	1.919+02	2.791+02	2.568-09	3.244-04
33	58	1.139+02	1.086+03	4.928-09	1.301-04	34	60	1.644+02	1.109+02	4.495-10	3.570-05
33	59	1.112+02	1.280+03	2.372-09	5.825-05	34	63	1.641+02	5.923+02	3.986-09	3.148-04
33	68	1.030+02	1.706+03	4.520-09	8.821-05	34	64	1.634+02	4.445+02	4.150-09	3.234-04
33	69	1.028+02	9.087+02	2.398-09	4.649-05	34	65	1.633+02	2.660+03	1.772-08	1.378-03
33	70	1.025+02	1.396+04	5.132-08	9.875-04	34	66	1.632+02	3.971+02	3.699-09	2.873-04
33	71	1.006+02	1.892+04	2.873-08	5.231-04	34	72	1.404+02	8.894+03	6.136-08	3.037-03
33	76	6.688+01	6.832+03	7.637-09	4.083-05	34	74	1.401+02	8.445+02	5.796-09	2.846-04
33	77	6.676+01	1.830+04	1.223-08	6.503-05	34	75	1.401+02	3.073+03	1.506-08	7.392-04
33	85	6.256+01	8.102+02	4.754-10	2.080-06	34	78	8.178+01	3.444+05	3.453-07	3.374-03
33	87	6.199+01	2.751+03	1.584-09	6.743-06	34	79	8.152+01	1.596+04	2.651-08	2.566-04
33	89	6.188+01	9.899+02	9.471-10	4.010-06	34	80	8.134+01	1.047+03	2.424-09	2.331-05
33	90	6.187+01	4.005+02	5.362-10	2.269-06	34	81	8.123+01	6.018+02	5.953-10	5.701-06
33	91	6.178+01	4.252+02	4.054-10	1.708-06	34	82	8.108+01	1.172+04	1.925-08	1.833-04
33	92	6.172+01	1.575+03	2.099-09	8.818-06	34	94	7.559+01	5.187+03	4.443-09	3.429-05
33	93	6.126+01	1.487+04	8.367-09	3.437-05	34	95	7.553+01	3.826+03	5.455-09	4.201-05
33	102	6.063+01	1.878+02	1.725-10	6.870-07	34	98	7.544+01	7.826+02	1.558-09	1.195-05
33	103	6.062+01	2.024+04	2.603-08	1.036-04	34	99	7.540+01	1.152+02	1.636-10	1.253-06
33	106	6.057+01	1.042+04	1.338-08	5.313-05	34	100	7.539+01	1.119+04	2.225-08	1.704-04
33	115	5.821+01	3.843+02	3.253-10	1.146-06	34	110	7.530+01	5.816+03	4.944-09	3.772-05
33	116	5.818+01	1.000+03	8.461-10	2.976-06	34	111	7.510+01	7.878+04	6.661-08	5.041-04
33	117	5.813+01	2.138+03	2.527-09	8.867-06	34	112	7.498+01	5.220+02	7.333-10	5.524-06
33	118	5.786+01	3.655+04	1.835-08	6.351-05	34	114	7.190+01	6.364+06	4.932-06	3.276-02
33	124	5.705+01	4.914+03	5.594-09	1.856-05	34	120	7.006+01	1.481+04	2.543-08	1.563-04
33	129	5.495+01	2.241+07	1.015-05	3.008-02	34	121	7.004+01	1.290+01	2.214-11	1.360-07
33	130	5.472+01	4.359+06	3.262-06	9.551-03	34	123	7.002+01	3.675+02	4.502-10	2.762-06
33	131	5.458+01	6.112+07	2.729-05	7.927-02	34	132	6.129+01	1.109+07	6.244-06	2.569-02
33	136	4.960+01	1.584+07	9.740-06	2.124-02	34	133	6.127+01	1.103+07	1.035-05	4.254-02
33	137	4.960+01	2.170+06	1.867-06	4.069-03	34	134	6.124+01	9.051+05	1.187-06	4.871-03

Table 4. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric quadrupole (E2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
34	135	6.071+01	3.384+04	3.116-08	1.246-04	35	113	7.449+01	1.440+05	2.395-08	2.948-04
34	140	4.429+01	3.188+06	9.376-07	1.456-03	35	114	7.196+01	1.042+07	4.853-06	5.385-02
34	146	4.207+01	4.980+06	1.322-06	1.758-03	35	119	7.110+01	7.503+04	1.137-08	1.218-04
34	147	4.207+01	4.956+06	2.191-06	2.914-03	35	120	7.012+01	7.952+03	8.206-09	8.425-05
34	148	4.206+01	4.080+05	2.525-07	3.356-04	35	121	7.010+01	5.380+01	5.548-11	5.691-07
34	149	4.194+01	1.770+04	7.779-09	1.025-05	35	122	7.009+01	6.460+03	8.564-09	8.783-05
34	154	4.147+01	2.171+08	1.307-04	1.665-01	35	123	7.008+01	3.148+03	2.318-09	2.375-05
35	36	4.738+04	5.749-08	2.709-14	8.580-02	35	132	6.133+01	1.840+07	6.227-06	4.279-02
35	37	2.309+03	3.246-04	2.594-13	9.511-05	35	133	6.131+01	7.951+06	4.481-06	3.076-02
35	40	2.492+02	5.203+02	2.905-09	1.338-03	35	134	6.128+01	9.017+06	7.106-06	4.870-02
35	43	2.448+02	1.384+02	1.243-09	5.428-04	35	135	6.075+01	6.946+03	3.843-09	2.566-05
35	44	2.416+02	1.682+01	2.060-10	8.649-05	35	140	4.432+01	5.268+06	9.305-07	2.412-03
35	45	2.397+02	6.446+01	3.331-10	1.365-04	35	141	4.414+01	5.266+04	3.077-09	7.881-06
35	46	2.370+02	1.205+03	1.015-08	4.021-03	35	146	4.209+01	8.237+06	1.313-06	2.915-03
35	47	2.205+02	4.298+03	6.264-09	1.999-03	35	147	4.208+01	3.563+06	9.460-07	2.100-03
35	48	1.966+02	1.724-00	5.993-12	1.356-06	35	148	4.208+01	4.044+06	1.503-06	3.334-03
35	49	1.930+02	1.520+01	5.094-11	1.091-05	35	149	4.196+01	6.868+03	1.813-09	3.986-06
35	50	1.923+02	7.356+02	4.079-09	8.642-04	35	154	4.149+01	6.022+07	2.176-05	4.630-02
35	56	1.828+02	3.255+03	3.261-09	5.933-04	35	155	4.149+01	1.534+08	7.127-05	1.516-01
35	60	1.647+02	1.844+02	4.501-10	5.990-05	35	157	4.149+01	8.118+07	3.771-05	8.021-02
35	61	1.647+02	2.658+03	1.946-08	2.589-03	36	37	2.427+03	4.502-04	2.840-13	1.693-04
35	63	1.644+02	2.604+01	1.055-10	1.397-05	36	40	2.505+02	7.040+01	2.838-10	1.859-04
35	64	1.637+02	3.077+03	1.730-08	2.259-03	36	43	2.460+02	4.297+02	2.785-09	1.729-03
35	65	1.636+02	1.599+03	6.414-09	8.357-04	36	44	2.428+02	3.168+01	2.800-10	1.671-04
35	66	1.635+02	2.300+03	1.290-08	1.679-03	36	45	2.409+02	5.435+02	2.026-09	1.181-03
35	67	1.633+02	8.207+01	5.907-10	7.663-05	36	46	2.381+02	1.854+03	1.126-08	6.343-03
35	72	1.407+02	1.324+02	5.496-10	4.555-05	36	48	1.974+02	3.393+01	8.497-11	2.726-05
35	73	1.405+02	6.592+03	3.511-08	2.899-03	36	49	1.938+02	4.149+03	1.001-08	3.038-03
35	74	1.403+02	1.063+03	4.391-09	3.611-04	36	50	1.931+02	7.258+02	2.898-09	8.701-04
35	75	1.403+02	3.092+03	9.121-09	7.496-04	36	60	1.653+02	2.258+01	3.963-11	7.462-06
35	78	8.185+01	3.516+05	2.119-07	3.461-03	36	61	1.653+02	7.516+02	3.958-09	7.451-04
35	79	8.159+01	2.580+04	2.575-08	4.165-04	36	62	1.652+02	6.175+03	3.972-08	7.473-03
35	80	8.141+01	1.042+04	1.450-08	2.331-04	36	63	1.650+02	3.703+01	1.079-10	2.021-05
35	81	8.130+01	2.877+04	1.711-08	2.738-04	36	64	1.642+02	6.324+02	2.558-09	4.724-04
35	82	8.115+01	4.212+04	4.159-08	6.619-04	36	65	1.641+02	1.143+02	3.297-10	6.076-05
35	83	7.997+01	9.146+04	1.754-08	2.671-04	36	66	1.641+02	8.097+02	3.267-09	6.013-04
35	94	7.565+01	1.609+03	8.281-10	1.068-05	36	67	1.639+02	7.149+03	3.701-08	6.792-03
35	95	7.560+01	3.014+03	2.582-09	3.322-05	36	72	1.411+02	8.783+01	2.621-10	3.068-05
35	97	7.558+01	2.610+04	4.023-08	5.173-04	36	73	1.409+02	8.555+02	3.274-09	3.818-04
35	98	7.550+01	1.628+03	1.947-09	2.496-05	36	74	1.407+02	2.122+03	6.299-09	7.316-04
35	99	7.546+01	5.584+01	4.767-11	6.101-07	36	75	1.407+02	4.810+02	1.019-09	1.183-04
35	100	7.546+01	3.668+03	4.383-09	5.608-05	36	78	8.199+01	2.506+05	1.083-07	2.488-03
35	101	7.544+01	4.542+03	6.975-09	8.917-05	36	79	8.173+01	4.468+02	3.196-10	7.276-06
35	110	7.536+01	1.813+05	9.264-08	1.181-03	36	80	8.155+01	2.511+04	2.504-08	5.663-04
35	111	7.516+01	2.120+05	1.078-07	1.363-03	36	81	8.144+01	7.855+04	3.348-08	7.540-04
35	112	7.504+01	3.683+03	3.110-09	3.914-05	36	82	8.129+01	6.529+04	4.620-08	1.035-03

Table 4. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric quadrupole (E2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
36	94	7.577+01	1.218+03	4.493-10	8.150-06	37	72	1.498+02	1.380+03	6.496-09	6.501-04
36	95	7.572+01	2.212+03	1.358-09	2.458-05	37	73	1.496+02	2.570+03	1.552-08	1.547-03
36	96	7.570+01	5.591+04	7.549-08	1.365-03	37	74	1.494+02	1.555+03	7.281-09	7.224-04
36	97	7.570+01	4.532+03	5.007-09	9.055-05	37	75	1.493+02	4.268+01	1.427-10	1.415-05
36	98	7.562+01	4.312+03	3.697-09	6.665-05	37	78	8.486+01	1.780+03	1.153-09	2.098-05
36	99	7.558+01	2.205+01	1.349-11	2.429-07	37	79	8.458+01	7.547+03	8.095-09	1.459-04
36	100	7.558+01	1.963+01	1.681-11	3.026-07	37	80	8.439+01	1.626+01	2.430-11	4.349-07
36	101	7.556+01	5.585+02	6.145-10	1.105-05	37	81	8.427+01	2.666+04	1.703-08	3.035-04
36	110	7.548+01	9.593+04	3.512-08	6.298-04	37	82	8.411+01	8.887+03	9.425-09	1.670-04
36	111	7.528+01	1.083+06	3.943-07	7.013-03	37	83	8.284+01	8.770+03	1.804-09	3.055-05
36	112	7.516+01	7.083+04	4.285-08	7.587-04	37	94	7.821+01	4.734+02	2.605-10	3.712-06
36	114	7.207+01	1.425+07	4.755-06	7.421-02	37	95	7.816+01	5.677+02	5.199-10	7.392-06
36	120	7.022+01	6.290+02	4.650-10	6.714-06	37	97	7.814+01	2.573+04	4.239-08	6.023-04
36	121	7.020+01	5.708+03	4.217-09	6.083-05	37	98	7.805+01	8.292+02	1.060-09	1.501-05
36	122	7.020+01	7.029+03	6.676-09	9.628-05	37	99	7.801+01	2.948+03	2.689-09	3.802-05
36	123	7.018+01	1.196+03	6.310-10	9.094-06	37	100	7.801+01	2.299+03	2.937-09	4.151-05
36	132	6.141+01	2.103+06	5.096-07	4.921-03	37	101	7.798+01	9.516+03	1.562-08	2.206-04
36	133	6.139+01	1.259+07	5.080-06	4.901-02	37	110	7.791+01	1.633+04	8.916-09	1.256-04
36	134	6.136+01	2.167+07	1.223-05	1.178-01	37	111	7.769+01	4.594+03	2.494-09	3.483-05
36	135	6.083+01	3.796+04	1.504-08	1.411-04	37	112	7.757+01	9.885+03	8.916-09	1.239-04
36	140	4.436+01	7.324+06	9.259-07	3.369-03	37	113	7.697+01	5.771+04	1.025-08	1.392-04
36	146	4.213+01	9.388+05	1.070-07	3.337-04	37	114	7.428+01	2.214+04	1.099-08	1.341-04
36	147	4.212+01	5.608+06	1.066-06	3.321-03	37	119	7.336+01	3.377+07	5.449-06	6.407-02
36	148	4.211+01	9.662+06	2.569-06	8.000-03	37	120	7.232+01	9.842+01	1.080-10	1.217-06
36	149	4.199+01	2.008+04	3.792-09	1.171-05	37	121	7.229+01	2.842+01	3.117-11	3.507-07
36	154	4.153+01	4.022+06	1.040-06	3.106-03	37	122	7.229+01	1.129+04	1.593-08	1.792-04
36	155	4.153+01	2.861+07	9.512-06	2.841-02	37	123	7.227+01	1.319+03	1.033-09	1.161-05
36	156	4.153+01	2.813+08	1.143-04	3.412-01	37	132	6.301+01	3.214+04	1.148-08	8.549-05
36	157	4.153+01	1.830+07	6.082-06	1.816-02	37	133	6.299+01	3.682+04	2.190-08	1.630-04
37	40	2.793+02	1.389+01	9.749-11	6.325-05	37	134	6.295+01	1.545+04	1.285-08	9.543-05
37	43	2.738+02	1.252+01	1.407-10	8.597-05	37	135	6.239+01	3.108+07	1.814-05	1.312-01
37	44	2.698+02	3.411-02	5.211-13	3.047-07	37	140	4.518+01	8.444+03	1.550-09	4.259-06
37	45	2.674+02	1.364+03	8.775-09	4.997-03	37	141	4.500+01	2.733+07	1.659-06	4.504-03
37	46	2.641+02	5.442-00	5.689-11	3.120-05	37	146	4.287+01	1.340+04	2.215-09	5.197-06
37	47	2.437+02	9.761+01	1.739-10	7.498-05	37	147	4.287+01	3.344+04	9.211-09	2.161-05
37	48	2.149+02	1.136+03	4.722-09	1.396-03	37	148	4.286+01	6.593+03	2.541-09	5.958-06
37	49	2.106+02	6.639+02	2.649-09	7.370-04	37	149	4.273+01	1.984+07	5.432-06	1.262-02
37	50	2.098+02	3.127+01	2.063-10	5.674-05	37	154	4.225+01	1.074+05	4.023-08	9.038-05
37	56	1.985+02	7.810+02	9.229-10	2.151-04	37	155	4.225+01	9.670+07	4.659-05	1.047-01
37	60	1.774+02	3.696-01	1.046-12	1.738-07	37	157	4.225+01	1.776+08	8.553-05	1.921-01
37	61	1.774+02	1.920+03	1.630-08	2.708-03	38	39	1.934+04	6.293-08	2.117-15	4.560-04
37	63	1.770+02	2.601+01	1.222-10	2.018-05	38	41	9.784+02	4.634-01	1.330-11	3.710-04
37	64	1.762+02	5.193+02	3.382-09	5.507-04	38	42	9.537+02	2.350-01	1.923-11	4.967-04
37	65	1.760+02	1.016+02	4.719-10	7.665-05	38	51	4.233+02	4.431+04	2.381-07	5.378-01
37	66	1.759+02	2.527+03	1.642-08	2.663-03	38	52	4.170+02	4.649+04	7.272-07	1.571-00
37	67	1.758+02	6.705+02	5.589-09	9.036-04	38	53	4.095+02	5.199+04	2.352-06	4.808-00

Table 4. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric quadrupole (E2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
38	54	4.071+02	4.146+04	1.030-06	2.070-00	38	151	4.746+01	1.846+03	8.723-10	2.776-06
38	55	4.054+02	2.486+04	8.577-07	1.702-00	38	152	4.745+01	5.877+03	3.571-09	1.136-05
38	57	3.972+02	1.300+04	3.076-07	5.741-01	38	153	4.743+01	5.806+01	2.741-11	8.712-08
38	58	3.924+02	3.442+04	1.113-06	2.003-00	39	42	1.003+03	7.888-02	1.190-11	2.147-04
38	59	3.621+02	1.941+03	2.289-08	3.235-02	39	52	4.262+02	8.405+02	2.289-08	3.167-02
38	68	2.875+02	6.250+01	7.746-10	5.483-04	39	54	4.159+02	1.030+04	4.451-07	5.719-01
38	69	2.859+02	1.740+03	2.131-08	1.482-02	39	55	4.141+02	2.696+04	1.617-06	2.052-00
38	70	2.838+02	5.577+02	9.428-09	6.419-03	39	57	4.056+02	4.132+04	1.698-06	2.024-00
38	71	2.699+02	7.439+02	4.875-09	2.855-03	39	58	4.006+02	2.679+04	1.504-06	1.727-00
38	76	1.147+02	1.582+03	3.120-09	1.402-04	39	59	3.690+02	8.723+04	1.781-06	1.599-00
38	77	1.143+02	1.205+03	1.418-09	6.313-05	39	68	2.919+02	6.183+01	1.316-09	5.845-04
38	84	1.027+02	1.622+05	5.127-08	1.653-03	39	69	2.901+02	3.874+01	8.149-10	3.556-04
38	85	1.025+02	9.432+04	8.921-08	2.864-03	39	70	2.880+02	3.695+01	1.072-09	4.579-04
38	86	1.012+02	1.998+07	6.136-06	1.894-01	39	71	2.737+02	1.602+04	1.799-07	6.595-02
38	87	1.010+02	1.968+07	1.806-05	5.544-01	39	76	1.154+02	7.365+02	2.450-09	6.725-05
38	88	1.008+02	1.993+07	5.467-05	1.668-00	39	77	1.150+02	1.840+04	3.650-08	9.927-04
38	89	1.007+02	1.581+07	2.404-05	7.317-01	39	85	1.031+02	1.779+05	2.835-07	5.549-03
38	90	1.007+02	9.094+06	1.935-05	5.885-01	39	87	1.015+02	2.130+05	3.293-07	6.159-03
38	91	1.005+02	3.981+06	6.023-06	1.818-01	39	89	1.012+02	4.052+06	1.038-05	1.926-01
38	92	1.003+02	1.060+07	2.239-05	6.730-01	39	90	1.012+02	1.096+07	3.928-05	7.279-01
38	93	9.910+01	2.232+05	1.972-07	5.715-03	39	91	1.010+02	1.582+07	4.031-05	7.417-01
38	102	9.746+01	1.013+03	1.442-09	3.976-05	39	92	1.008+02	9.125+06	3.245-05	5.944-01
38	103	9.744+01	3.291+03	6.557-09	1.806-04	39	93	9.961+01	1.932+07	2.874-05	5.075-01
38	106	9.731+01	6.138+02	1.220-09	3.348-05	39	102	9.795+01	2.620+03	6.282-09	1.055-04
38	107	9.730+01	6.003+03	1.534-08	4.207-04	39	103	9.793+01	2.340+04	7.849-08	1.317-03
38	108	9.725+01	4.487+01	1.145-10	3.137-06	39	106	9.780+01	3.592+04	1.202-07	2.009-03
38	115	9.134+01	2.969+02	3.713-10	8.428-06	39	115	9.178+01	4.983+02	1.049-09	1.448-05
38	116	9.127+01	1.963+04	2.452-08	5.551-04	39	116	9.170+01	1.918+02	4.029-10	5.552-06
38	117	9.115+01	5.295+03	9.235-09	2.083-04	39	117	9.158+01	8.770+03	2.573-08	3.532-04
38	118	9.050+01	9.479+03	6.983-09	1.542-04	39	118	9.093+01	8.860+04	1.098-07	1.475-03
38	124	8.853+01	7.813+02	1.285-09	2.655-05	39	124	8.893+01	2.495+04	6.902-08	8.675-04
38	125	8.851+01	5.302+03	1.121-08	2.315-04	39	129	8.394+01	1.111+03	1.174-09	1.240-05
38	126	8.849+01	3.397+01	7.178-11	1.481-06	39	130	8.341+01	1.798+04	3.126-08	3.242-04
38	128	8.366+01	1.167+05	2.449-08	4.270-04	39	131	8.307+01	3.437+04	3.555-08	3.641-04
38	129	8.357+01	7.481+04	4.700-08	8.171-04	39	136	7.206+01	2.592+04	3.364-08	2.249-04
38	130	8.305+01	3.822+04	3.952-08	6.743-04	39	137	7.205+01	4.710+04	8.554-08	5.718-04
38	131	8.271+01	1.073+04	6.603-09	1.113-04	39	139	7.197+01	1.156+04	2.096-08	1.396-04
38	136	7.180+01	1.049+04	8.109-09	8.938-05	39	143	4.986+01	3.494+03	1.302-09	2.883-06
38	137	7.179+01	5.058+04	5.470-08	6.026-04	39	144	4.976+01	2.421+04	1.498-08	3.298-05
38	138	7.176+01	1.577+05	2.191-07	2.412-03	39	145	4.970+01	2.804+04	1.039-08	2.278-05
38	139	7.171+01	1.899+03	2.049-09	2.250-05	39	150	4.757+01	8.948+02	5.060-10	9.735-07
38	142	4.974+01	1.421+05	1.054-08	3.865-05	39	151	4.757+01	1.113+03	8.810-10	1.695-06
38	143	4.973+01	9.296+04	2.068-08	7.573-05	39	153	4.755+01	4.429+02	3.503-10	6.728-07
38	144	4.963+01	5.316+04	1.963-08	7.150-05	40	43	1.388+04	1.614-04	7.767-12	3.711-01
38	145	4.958+01	1.567+04	3.465-09	1.257-05	40	44	7.934+03	1.423-02	3.132-10	2.795-00
38	150	4.746+01	3.827+02	1.292-10	4.113-07	40	45	6.286+03	5.259-04	3.116-12	1.383-02

Table 4. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric quadrupole (E2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
40	46	4.842+03	1.135-02	6.652-11	1.350-01	41	102	1.082+02	7.579+03	6.656-08	5.027-04
40	48	9.323+02	2.257-00	2.940-10	4.257-03	41	115	1.008+02	7.951+06	6.049-05	3.684-01
40	49	8.564+02	5.681-01	6.246-11	7.010-04	41	116	1.007+02	1.186+07	9.007-05	5.471-01
40	50	8.431+02	1.788-00	3.176-10	3.401-03	41	130	9.075+01	3.068+04	1.894-07	8.433-04
40	60	4.860+02	1.422+04	5.036-07	1.033-00	41	136	7.748+01	4.588+04	2.065-07	5.720-04
40	63	4.834+02	7.920+03	4.624-07	9.330-01	41	144	5.229+01	2.126+04	4.357-08	3.710-05
40	64	4.771+02	4.612+03	3.672-07	7.125-01	41	150	4.988+01	2.097+02	3.911-10	2.890-07
40	65	4.761+02	2.185+03	1.238-07	2.386-01	42	52	7.411+02	1.365+01	1.124-09	8.175-03
40	66	4.755+02	1.522+02	1.203-08	2.311-02	42	54	7.103+02	1.224+01	1.543-09	9.881-03
40	72	3.230+02	1.685-00	6.149-11	3.703-05	42	55	7.052+02	7.399-01	1.287-10	8.064-04
40	74	3.210+02	5.473+02	1.973-08	1.167-02	42	57	6.808+02	1.718-00	1.990-10	1.122-03
40	75	3.209+02	9.864+01	2.539-09	1.500-03	42	58	6.668+02	1.157+01	1.799-09	9.533-03
40	78	1.219+02	1.149+05	2.560-07	8.284-03	42	59	5.837+02	1.731+02	8.840-09	3.141-02
40	79	1.213+02	9.528+05	3.504-06	1.118-01	42	68	4.116+02	2.789+04	1.181-06	1.471-00
40	80	1.209+02	5.027+06	2.571-05	8.125-01	42	69	4.082+02	2.266+04	9.437-07	1.147-00
40	81	1.207+02	7.178+04	1.567-07	4.923-03	42	70	4.041+02	5.557+04	3.174-06	3.741-00
40	82	1.203+02	3.849+05	1.393-06	4.339-02	42	71	3.765+02	7.929+04	1.685-06	1.607-00
40	94	1.086+02	3.154+07	5.580-05	1.278-00	42	76	1.304+02	1.036+03	4.402-09	1.743-04
40	95	1.085+02	1.902+07	5.598-05	1.279-00	42	77	1.299+02	1.143+04	2.894-08	1.134-03
40	98	1.083+02	9.039+06	3.710-05	8.427-01	42	85	1.149+02	1.612+03	3.190-09	8.645-05
40	99	1.082+02	3.171+06	9.284-06	2.104-01	42	87	1.130+02	2.940+04	5.626-08	1.450-03
40	100	1.082+02	9.774+05	4.005-06	9.075-02	42	89	1.126+02	8.930+03	2.830-08	7.224-04
40	110	1.081+02	1.340+06	2.345-06	5.286-02	42	90	1.126+02	8.265+02	3.665-09	9.345-05
40	111	1.076+02	1.216+05	2.112-07	4.706-03	42	91	1.123+02	1.776+03	5.594-09	1.415-04
40	112	1.074+02	1.839+05	5.300-07	1.173-02	42	92	1.121+02	3.068+04	1.349-07	3.394-03
40	114	1.012+02	9.425+02	1.447-09	2.678-05	42	93	1.106+02	6.656+04	1.220-07	2.949-03
40	120	9.758+01	9.825+02	3.273-09	5.433-05	42	102	1.086+02	4.952+03	1.458-08	3.332-04
40	121	9.754+01	2.096+05	6.974-07	1.156-02	42	103	1.085+02	4.623+04	1.905-07	4.350-03
40	123	9.750+01	5.137+04	1.220-07	2.021-03	42	106	1.084+02	8.551+03	3.513-08	7.988-04
40	132	8.136+01	3.089+03	3.065-09	2.950-05	42	115	1.010+02	1.197+07	3.053-05	5.624-01
40	133	8.133+01	1.202+04	1.987-08	1.909-04	42	116	1.009+02	7.907+06	2.013-05	3.697-01
40	134	8.126+01	5.465+04	1.262-07	1.211-03	42	117	1.008+02	1.991+07	7.074-05	1.294-00
40	135	8.034+01	9.776-01	1.577-12	1.461-08	42	118	9.999+01	1.965+07	2.945-05	5.261-01
40	140	5.390+01	3.178+01	1.384-11	3.874-08	42	124	9.758+01	7.813+03	2.603-08	4.321-04
40	146	5.065+01	7.768+04	2.987-08	6.934-05	42	129	9.160+01	5.494+04	6.911-08	9.491-04
40	147	5.064+01	7.104+04	4.552-08	1.056-04	42	130	9.097+01	4.432+04	9.166-08	1.233-03
40	148	5.063+01	7.909+04	7.091-08	1.644-04	42	131	9.057+01	1.357+04	1.668-08	2.215-04
40	149	5.045+01	3.499+02	2.225-10	5.106-07	42	136	7.764+01	2.881+04	4.340-08	3.629-04
40	154	4.978+01	6.027+03	5.226-09	1.152-05	42	137	7.763+01	3.231+04	6.810-08	5.693-04
41	54	6.972+02	1.549+01	5.643-09	1.139-02	42	139	7.754+01	1.823+04	3.833-08	3.193-04
41	57	6.687+02	5.624-00	1.885-09	3.358-03	42	143	5.246+01	2.180+04	8.997-09	2.321-05
41	68	4.072+02	2.330+04	2.895-06	1.164-00	42	144	5.236+01	3.029+04	2.075-08	5.323-05
41	69	4.038+02	3.094+04	3.783-06	1.484-00	42	145	5.229+01	1.269+03	5.203-10	1.330-06
41	76	1.299+02	7.064+02	8.939-09	1.168-04	42	150	4.994+01	1.151+02	7.173-11	1.596-07
41	89	1.123+02	2.320+04	2.193-07	1.849-03	42	151	4.994+01	3.025+02	2.639-10	5.873-07
41	91	1.119+02	5.954+03	5.593-08	4.674-04	42	153	4.991+01	6.830+02	5.952-10	1.323-06

Table 4. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric quadrupole (E2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
43	44	1.852+04	1.116-04	8.030-12	1.519-00	43	140	5.411+01	1.550+03	4.083-10	1.927-06
43	45	1.149+04	2.336-03	2.775-11	1.253-00	43	141	5.385+01	1.817+04	1.580-09	7.350-06
43	46	7.437+03	2.014-02	1.670-10	2.046-00	43	146	5.083+01	2.736+03	6.358-10	2.487-06
43	47	2.221+03	1.240+01	1.834-09	5.984-01	43	147	5.082+01	1.390+03	5.385-10	2.105-06
43	48	9.994+02	1.570-00	1.411-10	4.193-03	43	148	5.081+01	1.599+03	8.667-10	3.386-06
43	49	9.127+02	1.193-00	8.941-11	2.024-03	43	149	5.063+01	5.510+03	2.118-09	8.187-06
43	50	8.977+02	1.064-00	1.286-10	2.770-03	43	154	4.996+01	5.873+04	3.077-08	1.143-04
43	56	7.222+02	2.433+02	3.806-09	4.270-02	43	155	4.996+01	3.795+05	2.556-07	9.496-04
43	60	5.037+02	1.065+03	2.430-08	9.245-02	43	157	4.996+01	2.755+01	1.855-11	6.890-08
43	61	5.036+02	1.137+04	7.780-07	2.959-00	44	45	3.027+04	8.603-07	5.066-14	5.860-02
43	63	5.008+02	9.972+02	3.749-08	1.402-01	44	46	1.243+04	1.412-03	2.336-11	1.870-00
43	64	4.940+02	1.753+03	8.983-08	3.226-01	44	48	1.056+03	1.983-01	1.422-11	6.990-04
43	65	4.930+02	2.545+03	9.272-08	3.308-01	44	49	9.600+02	1.796+01	1.063-09	3.922-02
43	66	4.923+02	5.716+03	2.908-07	1.033-00	44	50	9.434+02	2.816-00	2.684-10	9.394-03
43	67	4.908+02	1.853+02	1.205-08	4.242-02	44	60	5.177+02	5.680+01	9.782-10	5.660-03
43	72	3.307+02	4.378-00	1.005-10	1.082-04	44	61	5.177+02	1.268+03	6.548-08	3.787-01
43	73	3.297+02	7.742+01	2.271-09	2.425-03	44	62	5.173+02	1.276+04	8.043-07	4.642-00
43	74	3.286+02	6.388+01	1.448-09	1.531-03	44	63	5.147+02	3.692+02	1.047-08	5.955-02
43	75	3.285+02	6.158+01	9.964-10	1.052-03	44	64	5.076+02	1.940+03	7.493-08	4.086-01
43	78	1.230+02	1.840+06	2.503-06	1.387-01	44	65	5.065+02	1.725+02	4.737-09	2.566-02
43	79	1.224+02	2.586+04	5.807-08	3.170-03	44	66	5.058+02	3.304+02	1.267-08	6.834-02
43	80	1.220+02	2.789+06	8.711-06	4.710-01	44	67	5.042+02	5.034+03	2.467-07	1.318-00
43	81	1.217+02	5.015+06	6.686-06	3.593-01	44	72	3.367+02	5.218-00	8.868-11	1.412-04
43	82	1.214+02	5.108+06	1.129-05	6.013-01	44	73	3.357+02	3.896+01	8.463-10	1.335-03
43	83	1.188+02	7.775+06	3.289-06	1.641-01	44	74	3.346+02	1.198+01	2.010-10	3.140-04
43	94	1.095+02	2.876+06	3.101-06	1.212-01	44	75	3.345+02	2.771-00	3.320-11	5.180-05
43	95	1.094+02	3.324+06	5.962-06	2.323-01	44	78	1.238+02	1.192+07	1.174-05	9.287-01
43	97	1.093+02	3.134+07	1.011-04	3.937-00	44	79	1.232+02	3.727+06	6.058-06	4.724-01
43	98	1.092+02	2.384+06	5.964-06	2.311-01	44	80	1.228+02	3.466+06	7.835-06	6.049-01
43	99	1.091+02	5.605+06	1.000-05	3.868-01	44	81	1.226+02	2.505+05	2.418-07	1.855-02
43	100	1.091+02	1.590+07	3.970-05	1.535-00	44	82	1.222+02	4.357+06	6.967-06	5.301-01
43	101	1.090+02	3.125+05	1.003-06	3.872-02	44	94	1.101+02	1.764+05	1.375-07	7.662-03
43	110	1.089+02	9.165+04	9.775-08	3.759-03	44	95	1.100+02	1.268+06	1.644-06	9.130-02
43	111	1.085+02	1.878+04	1.987-08	7.554-04	44	96	1.100+02	3.940+07	1.123-04	6.232-00
43	112	1.082+02	4.055+04	7.121-08	2.689-03	44	97	1.100+02	4.215+06	9.829-06	5.454-01
43	113	1.071+02	1.234+05	4.243-08	1.551-03	44	98	1.098+02	4.817+06	8.710-06	4.811-01
43	114	1.019+02	5.155+04	4.818-08	1.519-03	44	99	1.097+02	3.647+05	4.703-07	2.592-02
43	119	1.002+02	1.865+03	5.615-10	1.683-05	44	100	1.097+02	1.585+06	2.861-06	1.576-01
43	120	9.827+01	1.610+03	3.263-09	9.222-05	44	101	1.097+02	1.329+07	3.082-05	1.696-00
43	121	9.823+01	1.727+04	3.498-08	9.875-04	44	110	1.095+02	1.931+04	1.489-08	8.158-04
43	122	9.822+01	3.444+04	8.966-08	2.530-03	44	111	1.091+02	2.544+04	1.946-08	1.054-03
43	123	9.819+01	7.799+03	1.127-08	3.178-04	44	112	1.089+02	2.360+03	2.995-09	1.611-04
43	132	8.184+01	1.198+03	7.217-10	1.178-05	44	114	1.025+02	1.239+05	8.364-08	3.755-03
43	133	8.181+01	1.310+02	1.315-10	2.143-06	44	120	9.879+01	3.330+02	4.873-10	1.959-05
43	134	8.174+01	1.635+04	2.293-08	3.729-04	44	121	9.875+01	3.291+02	4.812-10	1.932-05
43	135	8.081+01	9.779+03	9.574-09	1.504-04	44	122	9.875+01	2.578+03	4.845-09	1.945-04

Table 4. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric quadrupole (E2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
44	123	9.871+01	6.186+01	6.455-11	2.589-06	45	135	8.138+01	1.056+04	1.748-08	1.684-04
44	132	8.221+01	1.293+03	5.615-10	1.301-05	45	140	5.437+01	2.325+02	1.030-10	2.959-07
44	133	8.217+01	7.623+03	5.512-09	1.275-04	45	146	5.106+01	3.617+03	1.413-09	3.362-06
44	134	8.210+01	1.273+04	1.286-08	2.969-04	45	147	5.105+01	1.032+04	6.723-09	1.598-05
44	135	8.116+01	2.245+01	1.583-11	3.530-07	45	148	5.104+01	5.225+03	4.761-09	1.131-05
44	140	5.427+01	3.176+03	6.010-10	4.006-06	45	149	5.086+01	9.746+02	6.299-10	1.481-06
44	146	5.097+01	4.781+02	7.981-11	4.406-07	45	154	5.018+01	6.713+04	5.914-08	1.335-04
44	147	5.096+01	2.823+03	7.853-10	4.334-06	46	47	3.166+03	1.631-00	4.903-10	4.635-01
44	148	5.095+01	4.810+03	1.872-09	1.032-05	46	48	1.154+03	3.846-01	4.612-11	2.113-03
44	149	5.077+01	7.790-00	2.150-12	1.173-08	46	49	1.040+03	2.700-01	2.629-11	8.815-04
44	154	5.010+01	7.038+03	2.648-09	1.388-05	46	50	1.021+03	1.220-02	1.906-12	6.041-05
44	155	5.010+01	5.004+04	2.421-08	1.269-04	46	56	7.999+02	2.304+02	4.420-09	6.738-02
44	156	5.010+01	4.921+05	2.910-07	1.525-03	46	60	5.402+02	8.385+02	2.201-08	1.034-01
44	157	5.009+01	3.200+04	1.548-08	8.113-05	46	61	5.402+02	1.231+03	9.690-08	4.548-01
45	46	2.108+04	7.675-05	8.526-12	1.428-00	46	63	5.370+02	2.442+03	1.056-07	4.867-01
45	48	1.095+03	1.153-02	2.070-12	4.851-05	46	64	5.292+02	5.141+03	3.022-07	1.334-00
45	49	9.914+02	1.785-01	2.630-11	4.581-04	46	65	5.280+02	1.288+02	5.381-09	2.358-02
45	50	9.737+02	2.543-03	6.024-13	9.937-06	46	66	5.272+02	2.620+02	1.528-08	6.670-02
45	60	5.268+02	1.596+02	6.637-09	1.733-02	46	67	5.255+02	7.674+03	5.719-07	2.472-00
45	63	5.236+02	1.048+03	7.181-08	1.842-01	46	72	3.461+02	5.015-01	1.261-11	1.557-05
45	64	5.162+02	8.015+02	7.473-08	1.837-01	46	73	3.450+02	2.424+01	7.785-10	9.522-04
45	65	5.151+02	5.057+03	3.352-07	8.186-01	46	74	3.438+02	7.457+01	1.850-09	2.240-03
45	66	5.144+02	7.904+03	7.314-07	1.779-00	46	75	3.437+02	1.584+01	2.805-10	3.392-04
45	72	3.405+02	7.933-00	3.217-10	2.270-04	46	78	1.251+02	5.674+05	7.980-07	4.647-02
45	74	3.383+02	3.145-00	1.259-10	8.715-05	46	79	1.244+02	5.227+06	1.214-05	6.964-01
45	75	3.382+02	1.597+02	4.565-09	3.156-03	46	80	1.240+02	3.203+06	1.034-05	5.875-01
45	78	1.243+02	1.057+05	2.448-07	8.403-03	46	81	1.238+02	5.812+06	8.009-06	4.522-01
45	79	1.237+02	3.131+06	1.197-05	4.051-01	46	82	1.234+02	2.596+04	5.928-08	3.319-03
45	80	1.233+02	1.032+05	5.491-07	1.839-02	46	83	1.207+02	6.860+06	2.996-06	1.569-01
45	81	1.231+02	3.513+06	7.975-06	2.655-01	46	94	1.111+02	3.048+06	3.386-06	1.384-01
45	82	1.227+02	3.369+06	1.267-05	4.183-01	46	95	1.110+02	9.216+06	1.703-05	6.937-01
45	94	1.106+02	5.394+05	9.883-07	2.386-02	46	97	1.110+02	4.275+06	1.421-05	5.783-01
45	95	1.104+02	2.279+06	6.944-06	1.671-01	46	98	1.108+02	1.832+07	4.721-05	1.913-00
45	98	1.102+02	4.857+06	2.064-05	4.940-01	46	99	1.107+02	1.579+05	2.901-07	1.173-02
45	99	1.101+02	1.619+07	4.908-05	1.172-00	46	100	1.107+02	1.279+05	3.291-07	1.330-02
45	100	1.101+02	2.118+07	8.985-05	2.145-00	46	101	1.107+02	2.574+07	8.505-05	3.433-00
45	110	1.099+02	1.571+04	2.847-08	6.759-04	46	110	1.105+02	1.213+05	1.332-07	5.355-03
45	111	1.095+02	2.927+03	5.262-09	1.235-04	46	111	1.101+02	8.766+03	9.555-09	3.796-04
45	112	1.093+02	2.287+04	6.820-08	1.589-03	46	112	1.098+02	6.625+04	1.198-07	4.726-03
45	114	1.028+02	1.108+04	1.757-08	3.414-04	46	113	1.086+02	1.975+05	6.990-08	2.669-03
45	120	9.912+01	1.944+04	6.680-08	1.162-03	46	114	1.033+02	2.452+01	2.356-11	7.744-07
45	121	9.908+01	4.218+03	1.448-08	2.517-04	46	119	1.016+02	2.764+03	8.552-10	2.669-05
45	123	9.904+01	5.035+04	1.234-07	2.142-03	46	120	9.959+01	4.852+02	1.010-09	2.970-05
45	132	8.243+01	9.171+03	9.341-09	9.348-05	46	121	9.954+01	1.363+04	2.835-08	8.329-04
45	133	8.239+01	1.341+04	2.275-08	2.274-04	46	122	9.954+01	4.939+02	1.320-09	3.878-05
45	134	8.233+01	2.789+02	6.612-10	6.593-06	46	123	9.950+01	4.814+03	7.145-09	2.096-04

Table 4. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric quadrupole (E2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
46	132	8.275+01	1.002+04	6.172-09	1.042-04	48	100	1.224+02	7.367+03	3.864-08	1.268-03
46	133	8.272+01	2.567+04	2.633-08	4.438-04	48	110	1.222+02	4.315+04	9.661-08	3.151-03
46	134	8.265+01	2.819+04	4.042-08	6.796-04	48	111	1.217+02	7.258+06	1.611-05	5.186-01
46	135	8.169+01	7.510+03	7.515-09	1.220-04	48	112	1.214+02	4.210+06	1.549-05	4.950-01
46	140	5.451+01	5.523-00	1.476-12	7.120-09	48	114	1.135+02	1.920+05	3.708-07	9.688-03
46	141	5.425+01	1.508+04	1.331-09	6.328-06	48	120	1.090+02	3.136+07	1.303-04	3.015-00
46	146	5.118+01	9.476-00	2.233-12	8.915-09	48	121	1.089+02	1.117+04	4.637-08	1.071-03
46	147	5.117+01	1.018+02	3.995-11	1.594-07	48	123	1.089+02	1.223+07	3.622-05	8.356-01
46	148	5.116+01	6.195+01	3.404-11	1.357-07	48	132	8.914+01	1.314+03	1.565-09	1.981-05
46	149	5.098+01	5.012+03	1.953-09	7.706-06	48	133	8.910+01	2.717+03	5.389-09	6.812-05
46	154	5.030+01	6.046+01	3.211-11	1.217-07	48	134	8.902+01	1.063+01	2.947-11	3.715-07
46	155	5.030+01	4.925+04	3.363-08	1.275-04	48	135	8.792+01	8.729+03	1.686-08	2.047-04
46	157	5.030+01	9.128+04	6.231-08	2.361-04	48	140	5.721+01	5.941+02	2.915-10	9.754-07
47	50	1.507+03	3.700-00	6.295-09	1.282-01	48	146	5.356+01	6.043+01	2.598-11	7.132-08
47	63	6.466+02	5.221+02	1.637-07	2.635-01	48	147	5.355+01	5.010+03	3.590-09	9.849-06
47	65	6.336+02	1.311+03	3.945-07	5.978-01	48	148	5.353+01	9.353+02	9.377-10	2.571-06
47	75	3.856+02	3.179+03	3.542-07	1.210-01	48	149	5.334+01	1.102+02	7.836-11	2.125-07
47	79	1.295+02	1.520+06	1.911-05	2.474-01	48	154	5.259+01	2.008+05	1.943-07	5.050-04
47	82	1.284+02	1.250+06	1.546-05	1.950-01	49	50	5.449+04	4.281-07	3.176-13	9.182-01
47	95	1.151+02	3.720+06	3.691-05	3.347-01	49	60	1.124+03	1.273-00	2.411-10	6.115-03
47	99	1.147+02	1.194+07	1.179-04	1.060-00	49	63	1.110+03	8.978-01	2.762-10	6.746-03
47	112	1.138+02	1.735+05	1.684-06	1.477-02	49	64	1.077+03	1.454-01	5.901-11	1.318-03
47	123	1.027+02	2.235+06	1.768-05	1.142-01	49	65	1.072+03	1.083-02	3.109-12	6.845-05
47	133	8.494+01	1.451+04	7.848-08	2.864-04	49	66	1.069+03	2.507-02	1.002-11	2.187-04
47	135	8.386+01	2.654+04	1.399-07	4.914-04	49	72	5.186+02	8.057+02	7.580-08	1.889-01
47	147	5.201+01	9.025+01	1.830-10	1.534-07	49	74	5.136+02	1.084+04	9.997-07	2.420-00
47	149	5.181+01	6.818+04	1.372-07	1.137-04	49	75	5.133+02	2.175+03	1.432-07	3.461-01
48	49	1.052+04	5.143-03	8.537-11	1.777-00	49	78	1.421+02	9.825+02	2.975-09	1.526-04
48	50	8.819+03	7.173-03	1.394-10	1.709-00	49	79	1.414+02	9.688+03	4.836-08	2.440-03
48	60	1.015+03	1.150-01	1.778-11	3.325-04	49	80	1.408+02	4.140+04	2.871-07	1.433-02
48	63	1.004+03	1.816-01	4.572-11	8.263-04	49	81	1.405+02	6.843+02	2.025-09	1.003-04
48	64	9.771+02	2.896-01	9.671-11	1.612-03	49	82	1.400+02	2.289+02	1.122-09	5.502-05
48	65	9.729+02	5.786-01	1.369-10	2.252-03	49	94	1.244+02	8.782+05	2.038-06	7.014-02
48	66	9.703+02	2.777-02	9.146-12	1.493-04	49	95	1.243+02	1.933+05	7.460-07	2.558-02
48	72	4.942+02	1.248+04	1.066-06	2.301-00	49	98	1.240+02	2.966+04	1.596-07	5.439-03
48	74	4.897+02	8.247+01	6.917-09	1.451-02	49	99	1.239+02	3.160+03	1.212-08	4.120-04
48	75	4.894+02	5.153+03	3.085-07	6.462-01	49	100	1.239+02	2.609+02	1.401-09	4.760-05
48	78	1.402+02	1.677+04	4.944-08	2.436-03	49	110	1.237+02	5.686+06	1.303-05	4.402-01
48	79	1.395+02	3.833+03	1.863-08	9.032-04	49	111	1.231+02	4.328+06	9.832-06	3.277-01
48	80	1.389+02	1.562+03	1.055-08	5.059-04	49	112	1.228+02	2.170+06	8.176-06	2.705-01
48	81	1.386+02	4.035+03	1.163-08	5.535-04	49	114	1.147+02	2.499+04	4.933-08	1.332-03
48	82	1.382+02	5.351+03	2.553-08	1.204-03	49	120	1.101+02	1.541+06	6.537-06	1.560-01
48	94	1.230+02	7.313+01	1.658-10	5.507-06	49	121	1.101+02	3.309+07	1.403-04	3.343-00
48	95	1.228+02	5.421+04	2.044-07	6.766-03	49	123	1.100+02	6.407+06	1.938-05	4.612-01
48	98	1.226+02	2.079+04	1.092-07	3.594-03	49	132	8.990+01	7.103+04	8.607-08	1.118-03
48	99	1.225+02	1.992+04	7.464-08	2.450-03	49	133	8.986+01	8.649+03	1.745-08	2.263-04

Table 4. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric quadrupole (E2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
49	134	8.978+01	8.246+03	2.325-08	3.007-04	50	135	8.880+01	7.117+03	8.414-09	1.755-04
49	135	8.866+01	5.100+03	1.002-08	1.247-04	50	140	5.758+01	4.066+02	1.213-10	6.897-07
49	140	5.752+01	2.950+01	1.463-11	4.977-08	50	141	5.729+01	8.988+03	8.846-10	4.954-06
49	146	5.383+01	1.743+04	7.573-09	2.111-05	50	146	5.388+01	8.262+02	2.158-10	1.005-06
49	147	5.382+01	1.206+04	8.726-09	2.431-05	50	147	5.388+01	3.227+02	1.404-10	6.539-07
49	148	5.381+01	1.265+04	1.281-08	3.565-05	50	148	5.386+01	1.741+02	1.060-10	4.931-07
49	149	5.361+01	1.006+01	7.224-12	1.989-08	50	149	5.366+01	2.911+03	1.257-09	5.782-06
49	154	5.286+01	2.184+04	2.134-08	5.632-05	50	154	5.291+01	3.373+04	1.982-08	8.740-05
50	56	3.696+03	1.714-00	7.018-10	1.055-00	50	155	5.291+01	5.803+03	4.383-09	1.934-05
50	60	1.148+03	1.814-02	2.148-12	9.668-05	50	157	5.290+01	2.352+05	1.777-07	7.834-04
50	61	1.147+03	1.281-01	4.549-11	2.046-03	51	54	1.063+04	8.919-04	7.555-11	5.405-01
50	63	1.133+03	3.852-02	7.411-12	3.208-04	51	57	6.449+03	2.839-03	8.850-11	1.414-01
50	64	1.099+03	1.736-01	4.400-11	1.738-03	51	68	8.963+02	1.370-00	8.251-10	3.538-03
50	65	1.094+03	9.763-02	1.750-11	6.816-04	51	69	8.803+02	3.829-00	2.224-09	9.039-03
50	66	1.090+03	6.163-03	1.538-12	5.935-05	51	76	1.573+02	3.841+05	7.126-06	1.653-01
50	67	1.083+03	7.901-02	2.501-11	9.460-04	51	89	1.322+02	1.076+06	1.410-05	1.939-01
50	72	5.236+02	1.904+03	1.096-07	4.684-01	51	91	1.317+02	2.710+05	3.524-06	4.796-02
50	73	5.212+02	1.233+04	9.040-07	3.810-00	51	102	1.266+02	1.237+07	1.486-04	1.797-00
50	74	5.185+02	2.197+03	1.240-07	5.145-01	51	115	1.165+02	2.586+03	2.630-08	2.475-04
50	75	5.182+02	8.365+02	3.368-08	1.396-01	51	116	1.164+02	1.333+04	1.353-07	1.270-03
50	78	1.425+02	5.839+03	1.067-08	9.191-04	51	130	1.033+02	6.312+03	5.051-08	3.318-04
50	79	1.417+02	2.090+03	6.293-09	5.334-04	51	136	8.646+01	5.013+04	2.809-07	1.081-03
50	80	1.412+02	5.334+03	2.231-08	1.870-03	51	144	5.623+01	5.005+03	1.186-08	1.256-05
50	81	1.408+02	1.249+02	2.229-10	1.855-05	51	150	5.345+01	2.912+04	6.237-08	5.672-05
50	82	1.404+02	9.115+03	2.693-08	2.219-03	52	54	1.711+04	7.729-05	5.651-12	5.054-01
50	83	1.369+02	2.240+05	1.259-07	9.614-03	52	55	1.456+04	7.591-05	5.629-12	3.104-01
50	94	1.247+02	2.136+05	2.987-07	1.725-02	52	57	8.372+03	3.222-04	5.641-12	5.914-02
50	95	1.246+02	5.054+04	1.176-07	6.766-03	52	58	6.655+03	6.159-03	9.544-11	5.027-01
50	97	1.245+02	2.125+04	8.890-08	5.111-03	52	59	2.749+03	1.447-01	1.639-10	6.081-02
50	98	1.243+02	1.547+04	5.016-08	2.869-03	52	68	9.258+02	6.673-04	1.429-13	2.027-06
50	99	1.242+02	1.427+04	3.300-08	1.882-03	52	69	9.088+02	4.790-01	9.884-11	1.326-03
50	100	1.242+02	7.018+03	2.271-08	1.295-03	52	70	8.885+02	4.181-00	1.155-09	1.447-02
50	101	1.241+02	7.823+02	3.253-09	1.852-04	52	71	7.652+02	1.062+01	9.327-10	7.468-03
50	110	1.239+02	8.016+06	1.107-05	6.276-01	52	76	1.582+02	1.117+06	6.985-06	4.943-01
50	111	1.234+02	2.577+06	3.529-06	1.974-01	52	77	1.576+02	3.796+04	1.412-07	9.871-03
50	112	1.231+02	5.082+06	1.154-05	6.404-01	52	85	1.360+02	2.794+04	7.743-08	3.478-03
50	113	1.216+02	1.450+07	6.428-06	3.440-01	52	87	1.333+02	2.207+06	5.879-06	2.488-01
50	114	1.150+02	1.992+05	2.368-07	1.072-02	52	89	1.328+02	9.519+05	4.195-06	1.756-01
50	119	1.128+02	7.298+04	2.785-08	1.190-03	52	90	1.328+02	4.461+05	2.750-06	1.150-01
50	120	1.103+02	7.013+06	1.793-05	7.174-01	52	91	1.323+02	8.435+04	3.691-07	1.529-02
50	121	1.103+02	6.065+06	1.549-05	6.190-01	52	92	1.321+02	6.967+05	4.251-06	1.750-01
50	122	1.103+02	3.932+07	1.291-04	5.156-00	52	93	1.300+02	1.664+05	4.216-07	1.655-02
50	123	1.102+02	2.596+06	4.731-06	1.888-01	52	102	1.272+02	1.586+07	6.409-05	2.356-00
50	132	9.005+01	1.308+04	9.543-09	2.075-04	52	103	1.271+02	8.592+06	4.859-05	1.785-00
50	133	9.001+01	1.665+04	2.023-08	4.393-04	52	106	1.269+02	6.141+06	3.461-05	1.265-00
50	134	8.993+01	6.466+03	1.098-08	2.377-04	52	115	1.170+02	5.227+02	1.786-09	5.107-05

Table 4. Transition energies ($\AA$), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric quadrupole (E2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
52	116	1.168+02	1.708+03	5.824-09	1.660-04	53	137	8.705+01	8.777+02	7.755-10	2.742-05
52	117	1.167+02	1.432+04	6.815-08	1.933-03	53	138	8.701+01	3.339+03	3.790-09	1.339-04
52	118	1.156+02	3.921+04	7.853-08	2.167-03	53	139	8.693+01	3.200+01	2.820-11	9.930-07
52	124	1.124+02	1.668+05	7.368-07	1.869-02	53	144	5.648+01	2.270+05	6.033-08	5.827-04
52	129	1.045+02	5.060+03	8.287-09	1.691-04	53	150	5.368+01	1.588+03	3.810-10	3.159-06
52	130	1.037+02	1.311+04	3.522-08	7.019-04	53	151	5.368+01	2.400+04	8.064-09	6.685-05
52	131	1.032+02	4.960+02	7.917-10	1.554-05	53	152	5.367+01	9.064+04	3.914-08	3.244-04
52	136	8.673+01	7.691+04	1.446-07	1.685-03	53	153	5.365+01	7.448+02	2.499-10	2.068-06
52	137	8.671+01	4.120+04	1.084-07	1.262-03	54	55	9.781+04	2.788-09	5.598-15	1.560-01
52	139	8.660+01	3.776+03	9.905-09	1.149-04	54	57	1.640+04	6.502-05	2.620-12	3.439-01
52	143	5.646+01	4.054+03	1.937-09	6.231-06	54	58	1.089+04	1.661-03	4.137-11	1.593-00
52	144	5.634+01	9.085+03	7.206-09	2.303-05	54	59	3.275+03	1.810-01	1.746-10	1.826-01
52	145	5.626+01	8.190+02	3.887-10	1.237-06	54	68	9.788+02	2.682-01	3.852-11	1.076-03
52	150	5.355+01	3.428+04	2.457-08	6.741-05	54	69	9.598+02	2.650-00	3.660-10	9.637-03
52	151	5.355+01	2.782+04	2.790-08	7.656-05	54	70	9.372+02	1.074-00	1.979-10	4.852-03
52	153	5.352+01	2.476+03	2.481-09	6.795-06	54	71	8.011+02	1.283+01	7.408-10	1.134-02
53	54	7.082+04	4.448-08	1.858-14	3.537-01	54	76	1.597+02	1.460+06	5.581-06	6.768-01
53	55	4.108+04	1.499-06	2.950-13	1.096-00	54	77	1.590+02	6.573+05	1.495-06	1.790-01
53	57	1.331+04	7.110-05	1.050-12	1.328-01	54	84	1.373+02	1.301+05	7.355-08	5.668-03
53	58	9.441+03	3.033-03	3.153-11	1.423-00	54	85	1.371+02	6.122+04	1.034-07	7.932-03
53	68	9.655+02	4.403-02	3.418-12	1.649-04	54	86	1.347+02	5.088+06	2.767-06	2.013-01
53	69	9.470+02	5.330-00	3.981-10	1.812-02	54	87	1.343+02	1.435+06	2.329-06	1.682-01
53	70	9.250+02	3.196-00	3.188-10	1.352-02	54	88	1.340+02	3.792+05	1.837-06	1.316-01
53	76	1.593+02	3.402+06	7.193-06	1.560-00	54	89	1.338+02	4.332+04	1.164-07	8.308-03
53	88	1.337+02	3.872+06	1.038-05	1.332-00	54	90	1.338+02	1.958+05	7.357-07	5.247-02
53	89	1.336+02	7.893+05	1.173-06	1.500-01	54	91	1.334+02	6.237+05	1.663-06	1.175-01
53	90	1.335+02	1.451+06	3.018-06	3.852-01	54	92	1.331+02	2.126+06	7.906-06	5.552-01
53	91	1.331+02	2.058+05	3.038-07	3.841-02	54	93	1.310+02	6.877+05	1.061-06	7.103-02
53	92	1.329+02	1.712+06	3.524-06	4.429-01	54	102	1.281+02	3.758+06	9.251-06	5.796-01
53	102	1.279+02	7.117+03	9.696-09	1.088-03	54	103	1.281+02	9.837+06	3.388-05	2.121-00
53	103	1.279+02	7.306+04	1.393-07	1.561-02	54	106	1.279+02	3.472+06	1.192-05	7.423-01
53	104	1.277+02	1.712+06	5.121-06	5.722-01	54	107	1.278+02	2.059+07	9.082-05	5.653-00
53	105	1.277+02	3.346+07	1.182-04	1.320+01	54	108	1.278+02	4.400+03	1.939-08	1.204-03
53	106	1.277+02	1.022+05	1.942-07	2.165-02	54	115	1.178+02	2.674+03	5.560-09	2.704-04
53	107	1.276+02	1.086+06	2.651-06	2.954-01	54	116	1.177+02	2.397+04	4.973-08	2.412-03
53	108	1.275+02	4.704+05	1.147-06	1.276-01	54	117	1.174+02	1.301+04	3.767-08	1.818-03
53	109	1.275+02	6.682+06	1.991-05	2.213-00	54	118	1.164+02	8.972+02	1.093-09	5.129-05
53	115	1.176+02	1.212+01	1.395-11	1.215-06	54	124	1.131+02	3.073+04	8.254-08	3.558-03
53	116	1.174+02	1.422+03	1.633-09	1.418-04	54	125	1.131+02	2.523+05	8.710-07	3.753-02
53	117	1.173+02	1.006+03	1.613-09	1.394-04	54	126	1.131+02	4.971+03	1.715-08	7.384-04
53	124	1.129+02	1.344+01	2.000-11	1.545-06	54	128	1.053+02	1.610+04	5.353-09	1.861-04
53	125	1.129+02	1.043+02	1.995-10	1.540-05	54	129	1.052+02	1.099+04	1.094-08	3.788-04
53	126	1.129+02	5.696+01	1.088-10	8.393-06	54	130	1.043+02	8.721+03	1.423-08	4.815-04
53	127	1.129+02	4.991+02	1.165-09	8.979-05	54	131	1.038+02	1.574+03	1.526-09	5.082-05
53	130	1.042+02	4.612+03	4.169-09	2.527-04	54	136	8.717+01	2.334+04	2.659-08	5.245-04
53	136	8.706+01	5.790+01	3.655-11	1.293-06	54	137	8.715+01	4.921+04	7.846-08	1.547-03

Table 4. Transition energies ($\AA$), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric quadrupole (E2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
54	138	8.712+01	4.279+04	8.765-08	1.726-03	55	137	8.723+01	6.038+03	6.888-09	1.906-04
54	139	8.704+01	1.567+04	2.492-08	4.893-04	55	138	8.720+01	1.779+03	2.607-09	7.207-05
54	142	5.667+01	6.799+03	6.547-10	3.548-06	55	139	8.711+01	6.833+01	7.775-11	2.143-06
54	143	5.665+01	9.960+03	2.875-09	1.556-05	55	143	5.668+01	1.539+05	3.178-08	2.413-04
54	144	5.653+01	3.654+03	1.750-09	9.416-06	55	144	5.656+01	3.488+04	1.195-08	9.013-05
54	145	5.645+01	1.889+03	5.415-10	2.901-06	55	145	5.648+01	7.663+03	1.571-09	1.180-05
54	150	5.372+01	9.204+03	3.982-09	1.838-05	55	150	5.375+01	2.102+04	6.504-09	4.210-05
54	151	5.372+01	1.789+04	1.083-08	5.001-05	55	151	5.375+01	5.225+04	2.263-08	1.465-04
54	152	5.371+01	2.982+04	2.321-08	1.071-04	55	152	5.374+01	6.592+03	3.670-09	2.375-05
54	153	5.369+01	2.781+03	1.682-09	7.752-06	55	153	5.372+01	1.270+04	5.493-09	3.550-05
55	57	1.970+04	1.166-04	4.845-12	1.544-00	56	63	1.634+03	5.588-01	1.118-09	2.901-02
55	58	1.226+04	2.880-04	6.490-12	4.985-01	56	65	1.553+03	2.093-00	3.785-09	8.444-02
55	59	3.388+03	1.007-01	7.426-11	1.204-01	56	75	6.027+02	2.420+03	6.591-07	8.595-01
55	68	9.887+02	1.074-00	1.125-10	4.533-03	56	79	1.474+02	1.666+05	2.712-06	5.170-02
55	69	9.693+02	1.020-00	1.026-10	3.898-03	56	82	1.459+02	1.685+05	2.690-06	4.979-02
55	70	9.463+02	2.504-01	3.362-11	1.187-03	56	95	1.289+02	2.233+05	2.781-06	3.548-02
55	71	8.077+02	4.939-00	2.070-10	4.548-03	56	99	1.285+02	1.430+06	1.770-05	2.238-01
55	76	1.599+02	1.204+06	3.298-06	5.628-01	56	112	1.273+02	2.912+06	3.538-05	4.348-01
55	77	1.593+02	2.461+06	4.011-06	6.756-01	56	123	1.136+02	1.588+07	1.537-04	1.344-00
55	85	1.372+02	6.892+03	8.343-09	8.994-04	56	133	9.226+01	1.620+04	1.034-07	4.834-04
55	87	1.345+02	1.126+06	1.309-06	1.329-01	56	135	9.099+01	4.043+04	2.509-07	1.126-03
55	88	1.342+02	1.142+06	3.964-06	3.993-01	56	147	5.467+01	4.621+02	1.035-09	1.008-06
55	89	1.340+02	2.805+05	5.396-07	5.416-02	56	149	5.445+01	1.036+05	2.302-07	2.214-04
55	90	1.340+02	2.054+06	5.529-06	5.544-01	57	58	3.246+04	3.970-07	8.781-14	8.947-02
55	91	1.336+02	2.683+06	5.125-06	5.089-01	57	59	4.092+03	3.868-01	5.827-10	1.189-00
55	92	1.333+02	6.631+05	1.766-06	1.744-01	57	68	1.041+03	5.977-02	9.710-12	3.262-04
55	93	1.312+02	3.518+05	3.889-07	3.658-02	57	69	1.020+03	1.495-00	2.330-10	7.352-03
55	102	1.283+02	1.993+05	3.513-07	3.093-02	57	70	9.940+02	1.973-01	4.091-11	1.197-03
55	103	1.283+02	1.708+05	4.211-07	3.705-02	57	71	8.422+02	2.672+01	1.704-09	3.033-02
55	104	1.281+02	2.806+07	1.085-04	9.522-00	57	76	1.613+02	4.042+05	1.576-06	1.968-01
55	106	1.281+02	1.742+06	4.283-06	3.749-01	57	77	1.606+02	2.332+06	5.408-06	6.668-01
55	107	1.280+02	1.155+06	3.650-06	3.193-01	57	84	1.384+02	3.985+04	2.290-08	1.810-03
55	108	1.279+02	7.811+06	2.464-05	2.152-00	57	85	1.382+02	2.359+04	4.053-08	3.187-03
55	109	1.279+02	1.203+06	4.637-06	4.047-01	57	86	1.358+02	1.510+06	8.349-07	6.225-02
55	115	1.179+02	3.577+02	5.326-10	3.639-05	57	87	1.354+02	1.946+05	3.212-07	2.377-02
55	116	1.178+02	3.348+03	4.974-09	3.389-04	57	88	1.351+02	1.293+05	6.370-07	4.678-02
55	117	1.176+02	3.085+03	6.395-09	4.336-04	57	89	1.349+02	5.785+05	1.579-06	1.156-01
55	118	1.165+02	1.280+02	1.117-10	7.363-06	57	90	1.349+02	1.995+06	7.618-06	5.569-01
55	124	1.133+02	2.647+03	5.090-09	3.083-04	57	91	1.345+02	8.601+05	2.331-06	1.688-01
55	125	1.132+02	1.396+04	3.450-08	2.088-03	57	92	1.342+02	1.176+05	4.446-07	3.200-02
55	126	1.132+02	2.622+03	6.476-09	3.917-04	57	93	1.320+02	3.556+06	5.576-06	3.823-01
55	127	1.132+02	9.196+04	2.775-07	1.677-02	57	102	1.291+02	1.038+06	2.596-06	1.665-01
55	129	1.053+02	3.081+03	2.194-09	1.067-04	57	103	1.291+02	4.009+05	1.402-06	8.988-02
55	130	1.044+02	1.203+03	1.405-09	6.676-05	57	106	1.289+02	8.191+06	2.856-05	1.821-00
55	131	1.039+02	2.725+02	1.890-10	8.844-06	57	107	1.289+02	7.737+05	3.467-06	2.209-01
55	136	8.725+01	1.657+03	1.351-09	3.740-05	57	108	1.288+02	2.441+07	1.093-04	6.948-00

Table 4. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric quadrupole (E2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
57	115	1.186+02	3.562+03	7.513-09	3.734-04	58	116	1.189+02	6.417+03	9.719-09	6.816-04
57	116	1.185+02	3.579+03	7.535-09	3.733-04	58	117	1.187+02	2.271+03	4.799-09	3.349-04
57	117	1.183+02	8.664+02	2.545-09	1.255-04	58	118	1.176+02	5.825+03	5.179-09	3.514-04
57	118	1.172+02	1.920+04	2.373-08	1.138-03	58	124	1.143+02	1.206+03	2.363-09	1.472-04
57	124	1.139+02	2.996+04	8.161-08	3.592-03	58	125	1.143+02	8.034+03	2.023-08	1.259-03
57	125	1.139+02	9.605+02	3.362-09	1.479-04	58	126	1.143+02	3.349+02	8.427-10	5.241-05
57	126	1.139+02	7.952+04	2.782-07	1.223-02	58	127	1.142+02	4.766+03	1.465-08	9.106-04
57	128	1.060+02	2.404+02	8.097-11	2.870-06	58	129	1.062+02	4.744+02	3.437-10	1.716-05
57	129	1.058+02	1.256+03	1.266-09	4.469-05	58	130	1.053+02	6.386+02	7.589-10	3.699-05
57	130	1.050+02	8.499+01	1.405-10	4.844-06	58	131	1.048+02	7.140+02	5.038-10	2.418-05
57	131	1.045+02	2.602+02	2.554-10	8.671-06	58	136	8.787+01	1.924+03	1.591-09	4.500-05
57	136	8.764+01	9.372+03	1.079-08	2.163-04	58	137	8.786+01	1.167+04	1.350-08	3.818-04
57	137	8.762+01	7.464+03	1.203-08	2.409-04	58	138	8.782+01	3.170+04	4.713-08	1.331-03
57	138	8.758+01	4.956+03	1.026-08	2.053-04	58	139	8.774+01	1.907+03	2.201-09	6.198-05
57	139	8.750+01	2.389+04	3.839-08	7.659-04	58	143	5.694+01	1.193+03	2.485-10	1.913-06
57	142	5.687+01	7.735+04	7.499-09	4.107-05	58	144	5.682+01	9.517+02	3.291-10	2.517-06
57	143	5.684+01	1.950+04	5.669-09	3.101-05	58	145	5.674+01	4.902+04	1.014-08	7.725-05
57	144	5.672+01	2.935+03	1.416-09	7.696-06	58	150	5.399+01	1.317+03	4.109-10	2.696-06
57	145	5.664+01	2.779+03	8.021-10	4.341-06	58	151	5.398+01	2.015+03	8.802-10	5.773-06
57	150	5.390+01	2.701+04	1.176-08	5.484-05	58	152	5.398+01	3.026+03	1.699-09	1.114-05
57	151	5.389+01	1.982+03	1.208-09	5.632-06	58	153	5.395+01	2.432+04	1.061-08	6.950-05
57	152	5.389+01	5.132+02	4.022-10	1.874-06	59	68	1.396+03	3.623-01	1.765-10	8.581-03
57	153	5.386+01	4.608+03	2.806-09	1.306-05	59	69	1.358+03	4.079-01	1.879-10	8.402-03
58	59	4.682+03	1.171-03	1.650-12	7.061-03	59	70	1.313+03	1.076-00	6.487-10	2.624-02
58	68	1.076+03	2.721-01	3.371-11	1.748-03	59	71	1.060+03	8.205-01	1.383-10	2.948-03
58	69	1.052+03	4.674-00	5.545-10	2.696-02	59	76	1.679+02	2.216+04	1.560-07	1.319-02
58	70	1.025+03	2.118-02	3.339-12	1.501-04	59	77	1.671+02	1.870+06	7.831-06	6.533-01
58	71	8.646+02	2.139-00	1.028-10	2.769-03	59	85	1.431+02	7.995+03	2.453-08	1.283-03
58	76	1.621+02	1.393+06	3.917-06	6.952-01	59	87	1.401+02	1.670+05	4.912-07	2.413-02
58	77	1.614+02	2.046+06	3.422-06	5.996-01	59	89	1.396+02	3.703+05	1.802-06	8.750-02
58	85	1.388+02	3.448+04	4.268-08	4.759-03	59	90	1.395+02	1.139+05	7.756-07	3.762-02
58	87	1.360+02	1.601+06	1.903-06	1.997-01	59	91	1.390+02	2.378+06	1.148-05	5.514-01
58	88	1.357+02	1.367+06	4.849-06	5.048-01	59	92	1.387+02	5.836+03	3.930-08	1.876-03
58	89	1.355+02	2.858+06	5.620-06	5.831-01	59	93	1.364+02	2.044+06	5.706-06	2.590-01
58	90	1.355+02	6.777+05	1.864-06	1.932-01	59	102	1.334+02	2.896+05	1.287-06	5.451-02
58	91	1.350+02	1.788+05	3.490-07	3.582-02	59	103	1.333+02	1.020+07	6.339-05	2.684-00
58	92	1.348+02	1.698+06	4.623-06	4.716-01	59	106	1.331+02	1.102+07	6.828-05	2.875-00
58	93	1.326+02	8.346+04	9.426-08	9.158-03	59	115	1.222+02	5.381+03	2.006-08	6.535-04
58	102	1.297+02	2.203+05	3.966-07	3.604-02	59	116	1.220+02	4.424+03	1.646-08	5.344-04
58	103	1.296+02	1.520+06	3.829-06	3.477-01	59	117	1.218+02	3.593+04	1.865-07	6.026-03
58	104	1.295+02	3.193+06	1.262-05	1.142-00	59	118	1.207+02	8.059+04	1.759-07	5.521-03
58	106	1.294+02	5.488+05	1.378-06	1.244-01	59	124	1.172+02	1.592+06	7.646-06	2.198-01
58	107	1.294+02	9.215+06	2.973-05	2.684-00	59	129	1.087+02	4.660+03	8.247-09	1.890-04
58	108	1.293+02	1.945+04	6.268-08	5.648-03	59	130	1.078+02	4.705+02	1.365-09	3.054-05
58	109	1.293+02	2.464+07	9.699-05	8.733-00	59	131	1.072+02	6.751+03	1.163-08	2.560-04
58	115	1.191+02	1.468+03	2.229-09	1.568-04	59	136	8.955+01	5.345+03	1.071-08	1.374-04

Table 4. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric quadrupole (E2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
59	137	8.954+01	1.178+04	3.304-08	4.238-04	61	66	2.197+04	2.510-05	1.413-12	8.033-01
59	139	8.941+01	5.001+04	1.399-07	1.786-03	61	67	1.935+04	4.128-06	2.316-13	8.989-02
59	143	5.765+01	7.309+02	3.641-10	1.246-06	61	72	9.632+02	9.930-01	1.074-10	5.146-03
59	144	5.752+01	5.646+02	4.668-10	1.587-06	61	73	9.550+02	4.660-02	6.371-12	2.974-04
59	145	5.744+01	1.274+03	6.300-10	2.133-06	61	74	9.460+02	1.178-02	1.230-12	5.580-05
59	150	5.462+01	5.780+01	4.308-11	1.254-07	61	75	9.451+02	1.773-00	1.319-10	5.970-03
59	151	5.461+01	1.759+03	1.835-09	5.340-06	61	79	1.617+02	9.330+05	2.031-06	4.603-01
59	153	5.458+01	4.663+04	4.859-08	1.412-04	61	80	1.610+02	8.433+04	2.548-07	5.700-02
60	63	8.840+04	2.025-08	3.954-14	4.881-01	61	82	1.600+02	1.352+05	2.882-07	6.323-02
60	64	2.590+04	2.041-06	4.788-13	1.486-01	61	95	1.397+02	2.876+04	4.677-08	6.840-03
60	65	2.325+04	6.656-06	8.993-13	2.020-01	61	96	1.397+02	2.067+05	7.390-07	1.080-01
60	66	2.187+04	5.471-07	9.153-14	1.711-02	61	97	1.397+02	2.483+06	7.262-06	1.061-00
60	72	9.630+02	4.220-01	1.369-10	2.185-03	61	98	1.394+02	1.366+04	3.095-08	4.494-03
60	74	9.458+02	5.949-03	1.862-12	2.814-05	61	99	1.393+02	1.022+05	1.651-07	2.391-02
60	75	9.449+02	1.337-02	2.984-12	4.498-05	61	100	1.392+02	9.906+05	2.240-06	3.242-01
60	78	1.627+02	5.408+05	2.146-06	1.652-01	61	101	1.392+02	1.032+05	2.998-07	4.333-02
60	79	1.617+02	2.738+04	1.788-07	1.351-02	61	112	1.379+02	1.664-01	2.633-13	3.698-08
60	80	1.610+02	1.184+03	1.073-08	7.999-04	61	120	1.221+02	1.377+02	2.393-10	2.335-05
60	81	1.606+02	1.046+04	4.042-08	2.989-03	61	121	1.220+02	2.209+01	3.836-11	3.737-06
60	82	1.600+02	3.247+04	2.076-07	1.518-02	61	122	1.220+02	2.907+01	6.489-11	6.320-06
60	94	1.399+02	8.511+05	2.497-06	1.222-01	61	123	1.220+02	5.202+01	6.446-11	6.270-06
60	95	1.397+02	1.013+06	4.942-06	2.409-01	61	133	9.767+01	3.860+02	3.067-10	1.532-05
60	98	1.394+02	1.876+05	1.275-06	6.172-02	61	134	9.758+01	1.091+02	1.212-10	6.036-06
60	99	1.393+02	3.008+05	1.458-06	7.035-02	61	135	9.625+01	7.173+02	5.535-10	2.646-05
60	100	1.392+02	6.694+04	4.540-07	2.190-02	61	147	5.653+01	1.588+05	4.227-08	4.093-04
60	110	1.389+02	3.059+04	8.851-08	4.241-03	61	148	5.651+01	2.034+04	7.575-09	7.329-05
60	111	1.382+02	7.635+02	2.188-09	1.033-04	61	149	5.629+01	1.539+05	4.063-08	3.885-04
60	112	1.379+02	5.664+03	2.689-08	1.259-03	61	154	5.547+01	7.522+03	2.698-09	2.468-05
60	114	1.278+02	4.063+01	9.948-11	3.709-06	61	155	5.547+01	7.087+04	3.269-08	2.990-04
60	120	1.221+02	6.154+02	3.209-09	1.044-04	61	156	5.546+01	4.047+03	2.281-09	2.086-05
60	121	1.220+02	2.274-01	1.185-12	3.847-08	61	157	5.546+01	2.607+03	1.202-09	1.099-05
60	123	1.220+02	1.042+02	3.872-10	1.255-05	62	64	2.700+04	9.169-07	6.375-14	8.217-02
60	132	9.772+01	1.780+04	2.549-08	4.249-04	62	66	2.265+04	6.595-07	3.228-14	2.457-02
60	133	9.767+01	1.791+04	4.269-08	7.107-04	62	67	1.987+04	3.937-05	1.906-12	9.795-01
60	134	9.758+01	1.472+03	4.903-09	8.139-05	62	72	9.645+02	3.672-02	3.258-12	1.915-04
60	135	9.625+01	5.219+01	1.208-10	1.925-06	62	73	9.562+02	1.021-00	1.145-10	6.560-03
60	140	6.063+01	7.882+03	4.343-09	1.730-05	62	74	9.472+02	1.470-00	1.258-10	7.007-03
60	146	5.654+01	6.909+03	3.311-09	1.069-05	62	80	1.610+02	1.025+06	2.536-06	6.938-01
60	147	5.653+01	6.935+03	5.538-09	1.787-05	62	96	1.397+02	2.655+06	7.769-06	1.388-00
60	148	5.651+01	5.642+02	6.303-10	2.033-06	62	97	1.397+02	2.706+05	6.477-07	1.157-01
60	149	5.629+01	2.582+01	2.044-11	6.517-08	62	98	1.394+02	1.235+05	2.290-07	4.066-02
60	154	5.547+01	1.139+05	1.225-07	3.736-04	62	100	1.393+02	4.050+04	7.496-08	1.327-02
61	62	7.354+05	1.138-13	1.128-17	2.405-01	62	101	1.392+02	8.563+05	2.035-06	3.598-01
61	63	9.011+04	3.108-10	2.102-16	8.244-03	62	120	1.221+02	8.267-00	1.176-11	1.403-06
61	64	2.604+04	8.150-07	6.444-14	6.099-02	62	121	1.221+02	3.785+01	5.379-11	6.408-06
61	65	2.337+04	1.364-06	6.205-14	4.245-02	62	122	1.220+02	1.991+02	3.637-10	4.332-05

Table 4. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric quadrupole (E2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
62	134	9.759+01	8.131+02	7.388-10	4.499-05	63	149	5.633+01	5.115+02	2.433-10	1.295-06
62	148	5.652+01	3.051+05	9.297-08	1.100-03	63	154	5.550+01	1.908+04	1.233-08	6.280-05
62	154	5.547+01	4.122+02	1.210-10	1.353-06	63	155	5.550+01	3.929+04	3.266-08	1.663-04
62	155	5.547+01	7.347+03	2.773-09	3.101-05	63	157	5.549+01	6.562+04	5.454-08	2.776-04
62	156	5.547+01	7.591+04	3.501-08	3.914-04	64	65	2.278+05	2.984-11	1.659-16	8.180-02
62	157	5.547+01	4.728+03	1.784-09	1.995-05	64	66	1.407+05	2.120-10	6.289-16	7.296-02
63	64	3.662+04	2.037-06	5.735-13	8.389-01	64	67	7.526+04	5.942-08	6.487-14	1.153-00
63	65	3.155+04	1.038-06	1.549-13	1.449-01	64	72	1.000+03	3.368-02	5.051-12	2.108-04
63	66	2.906+04	2.496-08	4.423-15	3.232-03	64	73	9.913+02	1.330-02	2.520-12	1.023-04
63	67	2.464+04	1.582-06	2.591-13	1.154-01	64	74	9.817+02	1.342-02	1.939-12	7.647-05
63	72	9.736+02	8.605-02	1.712-11	4.706-04	64	75	9.807+02	2.636-01	2.715-11	1.068-03
63	73	9.652+02	5.354-01	1.346-10	3.604-03	64	78	1.637+02	3.852+05	6.635-07	1.214-01
63	74	9.560+02	1.565-02	3.003-12	7.815-05	64	79	1.627+02	9.983+04	2.830-07	5.081-02
63	75	9.551+02	2.622-06	3.586-16	9.306-09	64	80	1.620+02	9.141+04	3.596-07	6.373-02
63	78	1.630+02	5.015+05	1.199-06	1.546-01	64	81	1.616+02	9.156+04	1.535-07	2.699-02
63	79	1.620+02	4.205+04	1.654-07	2.094-02	64	82	1.609+02	4.219+05	1.170-06	2.035-01
63	80	1.613+02	1.273+04	6.950-08	8.682-03	64	94	1.407+02	4.820+05	6.128-07	7.112-02
63	81	1.608+02	9.189+04	2.138-07	2.650-02	64	95	1.405+02	1.626+06	3.437-06	3.973-01
63	82	1.602+02	1.512+05	5.821-07	7.133-02	64	96	1.404+02	9.437+04	4.384-07	5.062-02
63	83	1.557+02	4.477+05	3.254-07	3.658-02	64	97	1.404+02	5.770+04	2.193-07	2.532-02
63	94	1.401+02	1.489+06	2.630-06	2.155-01	64	98	1.401+02	5.870+05	1.729-06	1.984-01
63	95	1.399+02	5.052+05	1.483-06	1.211-01	64	99	1.400+02	6.078+04	1.276-07	1.460-02
63	97	1.399+02	1.568+04	8.280-08	6.750-03	64	100	1.400+02	3.519+04	1.034-07	1.183-02
63	98	1.396+02	1.136+06	4.649-06	3.768-01	64	101	1.399+02	1.097+06	4.140-06	4.730-01
63	99	1.395+02	3.667+05	1.069-06	8.642-02	64	110	1.397+02	1.876+04	2.352-08	2.672-03
63	100	1.395+02	1.851+03	7.557-09	6.105-04	64	111	1.390+02	6.574+02	8.159-10	9.134-05
63	101	1.394+02	1.486+05	7.789-07	6.284-02	64	112	1.386+02	1.037+04	2.132-08	2.366-03
63	110	1.391+02	4.071+04	7.090-08	5.689-03	64	114	1.284+02	3.069+01	3.252-11	2.872-06
63	111	1.385+02	7.775+03	1.341-08	1.060-03	64	120	1.227+02	2.594+02	5.851-10	4.504-05
63	112	1.381+02	1.793+03	5.125-09	4.017-04	64	121	1.226+02	9.661+02	2.177-09	1.673-04
63	113	1.362+02	9.322+03	5.184-09	3.900-04	64	122	1.226+02	8.327+02	2.412-09	1.853-04
63	114	1.280+02	6.843+01	1.008-10	6.292-06	64	123	1.226+02	1.540+01	2.476-11	1.900-06
63	119	1.253+02	4.628+03	2.178-09	1.275-04	64	132	9.809+01	3.373+03	2.085-09	8.204-05
63	120	1.223+02	1.582+02	4.964-10	2.702-05	64	133	9.804+01	1.556+04	1.602-08	6.294-04
63	121	1.222+02	2.004+02	6.281-10	3.413-05	64	134	9.795+01	1.136+04	1.634-08	6.401-04
63	122	1.222+02	1.685+01	6.790-11	3.689-06	64	135	9.661+01	3.302+02	3.300-10	1.241-05
63	123	1.221+02	1.683+02	3.765-10	2.043-05	64	140	6.077+01	8.192+03	1.944-09	1.819-05
63	132	9.783+01	2.602+04	2.240-08	6.247-04	64	146	5.666+01	9.149+03	1.887-09	1.431-05
63	133	9.778+01	7.799+03	1.118-08	3.112-04	64	147	5.665+01	5.023+02	1.726-10	1.309-06
63	134	9.769+01	1.083+04	2.169-08	6.020-04	64	148	5.664+01	7.826+03	3.764-09	2.851-05
63	135	9.636+01	4.457+03	6.204-09	1.653-04	64	149	5.642+01	5.116-00	1.744-12	1.305-08
63	140	6.067+01	1.005+04	3.328-09	2.214-05	64	154	5.558+01	1.154+03	5.347-10	3.829-06
63	141	6.035+01	2.020+02	2.205-11	1.443-07	64	155	5.559+01	4.753+03	2.831-09	2.027-05
63	146	5.657+01	8.416+03	2.423-09	1.306-05	64	156	5.558+01	7.596+04	5.528-08	3.958-04
63	147	5.656+01	3.790+03	1.818-09	9.798-06	64	157	5.558+01	3.360+02	2.001-10	1.432-06
63	148	5.655+01	4.379+03	2.939-09	1.583-05	65	66	3.676+05	1.616-11	4.582-16	6.776-01

Table 4. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric quadrupole (E2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
65	67	1.124+05	2.402-10	8.187-16	3.460-02	66	78	1.639+02	8.922+03	1.540-08	2.829-03
65	72	1.005+03	3.758-03	7.961-13	2.404-05	66	79	1.629+02	3.306+05	9.393-07	1.692-01
65	73	9.957+02	1.308-01	3.498-11	1.028-03	66	80	1.622+02	1.600+04	6.309-08	1.122-02
65	74	9.859+02	3.024-03	6.170-13	1.761-05	66	81	1.617+02	9.368+05	1.574-06	2.777-01
65	75	9.850+02	6.069-02	8.827-12	2.512-04	66	82	1.611+02	1.933+04	5.375-08	9.375-03
65	78	1.639+02	1.190+05	2.874-07	3.765-02	66	94	1.408+02	8.352+04	1.064-07	1.238-02
65	79	1.628+02	1.040+05	4.134-07	5.314-02	66	95	1.406+02	4.675+02	9.900-10	1.148-04
65	80	1.621+02	5.812+03	3.206-08	4.067-03	66	96	1.406+02	1.409+04	6.559-08	7.595-03
65	81	1.617+02	4.514+05	1.061-06	1.335-01	66	97	1.406+02	7.309+05	2.784-06	3.223-01
65	82	1.611+02	8.440+03	3.282-08	4.084-03	66	98	1.403+02	2.207+05	6.512-07	7.497-02
65	83	1.565+02	1.062+06	7.796-07	8.894-02	66	99	1.401+02	1.210+06	2.546-06	2.922-01
65	94	1.408+02	6.329+05	1.128-06	9.366-02	66	100	1.401+02	1.613+06	4.749-06	5.450-01
65	95	1.406+02	1.946+05	5.763-07	4.767-02	66	101	1.401+02	9.621+01	3.639-10	4.169-05
65	97	1.405+02	5.890+04	3.138-07	2.593-02	66	110	1.398+02	2.690+03	3.379-09	3.850-04
65	98	1.402+02	2.659+04	1.098-07	9.015-03	66	111	1.391+02	3.837+02	4.771-10	5.357-05
65	99	1.401+02	1.623+06	4.775-06	3.911-01	66	112	1.387+02	3.613+01	7.446-11	8.288-06
65	100	1.401+02	9.315+05	3.837-06	3.141-01	66	114	1.285+02	2.506-01	2.661-13	2.356-08
65	101	1.400+02	2.579+04	1.364-07	1.115-02	66	120	1.228+02	5.211+02	1.178-09	9.088-05
65	110	1.398+02	2.870+04	5.043-08	4.100-03	66	121	1.227+02	1.257+02	2.838-10	2.187-05
65	111	1.391+02	1.251+03	2.177-09	1.744-04	66	122	1.227+02	2.056+02	5.967-10	4.596-05
65	112	1.387+02	5.056+02	1.458-09	1.158-04	66	123	1.227+02	1.232+03	1.984-09	1.526-04
65	113	1.368+02	2.562+04	1.437-08	1.095-03	66	132	9.816+01	1.329+02	8.230-11	3.245-06
65	114	1.285+02	1.446-02	2.147-14	1.357-09	66	133	9.811+01	5.515-01	5.685-13	2.238-08
65	119	1.258+02	1.120+04	5.311-09	3.148-04	66	134	9.802+01	1.987+03	2.861-09	1.123-04
65	120	1.227+02	1.517+03	4.798-09	2.642-04	66	135	9.668+01	8.103+02	8.110-10	3.055-05
65	121	1.227+02	4.030+02	1.273-09	6.998-05	66	140	6.080+01	5.763+02	1.369-10	1.282-06
65	122	1.227+02	2.575+02	1.046-09	5.747-05	66	146	5.668+01	8.357+04	1.725-08	1.310-04
65	123	1.226+02	4.722+02	1.064-09	5.842-05	66	147	5.667+01	1.982+04	6.818-09	5.175-05
65	132	9.813+01	4.208+03	3.646-09	1.026-04	66	148	5.666+01	8.145+01	3.920-11	2.973-07
65	133	9.808+01	9.486-00	1.368-11	3.845-07	66	149	5.644+01	2.384-02	8.133-15	6.096-11
65	134	9.799+01	2.583+02	5.206-10	1.459-05	66	154	5.561+01	2.574+04	1.193-08	8.554-05
65	135	9.665+01	9.182+03	1.286-08	3.457-04	66	155	5.561+01	2.275+03	1.356-09	9.721-06
65	140	6.079+01	4.044+02	1.344-10	8.991-07	66	156	5.560+01	3.821+03	2.783-09	1.995-05
65	141	6.046+01	4.918+02	5.391-11	3.548-07	66	157	5.560+01	2.774+03	1.653-09	1.185-05
65	146	5.667+01	1.492+02	4.312-11	2.338-07	67	72	1.014+03	4.325-03	5.183-13	2.894-05
65	147	5.667+01	3.644+02	1.754-10	9.505-07	67	73	1.005+03	3.028-01	4.581-11	2.489-03
65	148	5.665+01	2.194+02	1.478-10	8.002-07	67	74	9.946+02	1.838-00	2.120-10	1.118-02
65	149	5.643+01	7.870+02	3.757-10	2.011-06	67	75	9.937+02	1.156-01	9.505-12	4.999-04
65	154	5.560+01	7.395+02	4.798-10	2.456-06	67	79	1.631+02	1.061+04	2.349-08	5.458-03
65	155	5.560+01	1.921+04	1.603-08	8.204-05	67	80	1.623+02	3.029+05	9.307-07	2.134-01
65	157	5.559+01	1.396+03	1.165-09	5.959-06	67	82	1.613+02	7.826+05	1.696-06	3.814-01
66	67	1.619+05	4.246-13	2.144-18	3.790-04	67	95	1.408+02	2.858+05	4.716-07	7.048-02
66	72	1.007+03	2.725-01	4.145-11	1.767-03	67	96	1.407+02	7.144+05	2.591-06	3.868-01
66	73	9.984+02	5.381-02	1.034-11	4.289-04	67	97	1.407+02	7.155+04	2.123-07	3.169-02
66	74	9.885+02	2.417-01	3.540-11	1.426-03	67	98	1.404+02	1.392+06	3.200-06	4.748-01
66	75	9.876+02	1.329-00	1.388-10	5.575-03	67	99	1.403+02	2.905+04	4.761-08	7.045-03

Table 4. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric quadrupole (E2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
67	100	1.403+02	3.662+04	8.401-08	1.243-02	68	130	1.168+02	8.443-00	1.726-11	8.189-07
67	101	1.402+02	1.457+06	4.292-06	6.339-01	68	131	1.161+02	1.355+02	1.644-10	7.664-06
67	112	1.388+02	2.623+03	4.211-09	6.042-04	68	136	9.569+01	8.412-02	1.155-13	3.013-09
67	120	1.229+02	2.132+02	3.753-10	3.733-05	68	137	9.567+01	1.381+04	2.653-08	6.920-04
67	121	1.228+02	1.874+03	3.295-09	3.272-04	68	138	9.563+01	1.408+02	3.475-10	9.052-06
67	122	1.228+02	7.819+02	1.768-09	1.754-04	68	139	9.553+01	1.155+04	2.213-08	5.747-04
67	123	1.228+02	2.119+02	2.659-10	2.636-05	68	142	6.015+01	1.721+05	1.867-08	1.210-04
67	133	9.817+01	2.211+02	1.775-10	9.000-06	68	143	6.013+01	4.269+04	1.388-08	8.988-05
67	134	9.807+01	2.279+03	2.556-09	1.292-04	68	144	5.999+01	5.742+03	3.098-09	1.992-05
67	135	9.673+01	2.111+02	1.645-10	7.982-06	68	145	5.990+01	6.949+03	2.243-09	1.436-05
67	147	5.669+01	2.662+04	7.127-09	6.962-05	68	150	5.684+01	3.703+04	1.793-08	9.807-05
67	148	5.668+01	6.121+03	2.293-09	2.238-05	68	151	5.684+01	2.342+04	1.588-08	8.680-05
67	149	5.646+01	5.862+04	1.556-08	1.501-04	68	152	5.683+01	8.863-00	7.725-12	4.222-08
67	154	5.563+01	2.544+03	9.179-10	8.469-06	68	153	5.680+01	1.214+02	8.219-11	4.486-07
67	155	5.563+01	4.298+02	1.994-10	1.840-06	69	70	3.979+04	1.041-06	3.459-13	6.489-01
67	156	5.562+01	1.909+03	1.082-09	9.980-06	69	71	4.844+03	8.403-02	1.773-10	6.001-01
67	157	5.562+01	2.688+04	1.247-08	1.150-04	69	76	1.916+02	8.432+03	4.639-08	9.712-03
68	69	4.939+04	1.726-07	6.313-14	2.266-01	69	77	1.906+02	1.335+03	4.361-09	8.991-04
68	70	2.204+04	2.596-05	2.646-12	8.434-01	69	84	1.602+02	5.092+06	3.919-06	4.799-01
68	71	4.411+03	1.704-01	2.983-10	7.624-01	69	85	1.599+02	1.304+06	2.998-06	3.650-01
68	76	1.908+02	3.028+02	1.653-09	3.421-04	69	86	1.567+02	1.794+05	1.320-07	1.512-02
68	77	1.899+02	1.876+03	6.083-09	1.240-03	69	87	1.562+02	3.063+04	6.724-08	7.633-03
68	84	1.597+02	4.082+06	3.121-06	3.785-01	69	88	1.557+02	6.267+03	4.102-08	4.615-03
68	85	1.594+02	1.711+06	3.909-06	4.713-01	69	89	1.555+02	5.155+03	1.870-08	2.095-03
68	86	1.562+02	4.340+04	3.173-08	3.599-03	69	90	1.555+02	1.511+03	7.667-09	8.580-04
68	87	1.557+02	1.618+03	3.529-09	3.968-04	69	91	1.549+02	5.066+03	1.822-08	2.016-03
68	88	1.552+02	5.713+01	3.716-10	4.141-05	69	92	1.545+02	1.394+04	6.989-08	7.681-03
68	89	1.551+02	3.564+03	1.284-08	1.426-03	69	93	1.517+02	1.953+03	4.042-09	4.201-04
68	90	1.550+02	2.396+03	1.208-08	1.339-03	69	102	1.479+02	1.799+04	5.898-08	5.679-03
68	91	1.544+02	1.396+02	4.991-10	5.472-05	69	103	1.478+02	4.784+04	2.194-07	2.111-02
68	92	1.541+02	1.390+03	6.921-09	7.536-04	69	106	1.475+02	1.177+04	5.379-08	5.144-03
68	93	1.512+02	5.218+03	1.073-08	1.105-03	69	107	1.475+02	6.793+04	3.989-07	3.812-02
68	102	1.474+02	7.023+02	2.289-09	2.184-04	69	108	1.474+02	8.676-01	5.087-12	4.851-07
68	103	1.474+02	2.575+03	1.174-08	1.120-03	69	115	1.342+02	3.236+05	8.741-07	6.296-02
68	106	1.471+02	1.497+04	6.799-08	6.444-03	69	116	1.341+02	4.288+06	1.156-05	8.297-01
68	107	1.471+02	4.871+03	2.843-08	2.693-03	69	117	1.338+02	8.716+05	3.277-06	2.339-01
68	108	1.470+02	2.808+04	1.636-07	1.546-02	69	118	1.324+02	1.844+06	2.910-06	2.013-01
68	115	1.339+02	3.492+06	9.383-06	6.704-01	69	124	1.282+02	3.068+06	1.059-05	6.652-01
68	116	1.337+02	5.274+05	1.414-06	1.007-01	69	125	1.282+02	2.852+07	1.265-04	7.941-00
68	117	1.335+02	1.128+06	4.216-06	2.985-01	69	126	1.282+02	1.883+06	8.346-06	5.233-01
68	118	1.321+02	2.359+06	3.702-06	2.540-01	69	128	1.183+02	3.089+04	1.296-08	6.385-04
68	124	1.279+02	3.959+06	1.360-05	8.472-01	69	129	1.181+02	1.551+04	1.946-08	9.549-04
68	125	1.279+02	7.682+05	3.390-06	2.111-01	69	130	1.171+02	7.419+03	1.524-08	7.282-04
68	126	1.278+02	2.942+07	1.297-04	8.073-00	69	131	1.164+02	7.289+02	8.881-10	4.170-05
68	128	1.180+02	8.810+03	3.678-09	1.799-04	69	136	9.588+01	1.180+03	1.627-09	4.269-05
68	129	1.178+02	8.983+03	1.122-08	5.464-04	69	137	9.586+01	1.898+03	3.660-09	9.602-05

Table 4. Transition energies ($\AA$), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric quadrupole (E2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
69	138	9.582+01	1.082+05	2.681-07	7.023-03	70	150	5.699+01	9.120+03	3.171-09	2.447-05
69	139	9.572+01	1.122+04	2.158-08	5.635-04	70	151	5.698+01	8.583+03	4.178-09	3.223-05
69	142	6.022+01	4.361-02	4.743-15	3.085-11	70	152	5.698+01	1.422+04	8.897-09	6.861-05
69	143	6.020+01	8.351+03	2.722-09	1.769-05	70	153	5.695+01	2.561+04	1.245-08	9.588-05
69	144	6.006+01	1.154+03	6.242-10	4.028-06	71	76	1.994+02	1.514+03	1.505-08	2.134-03
69	145	5.998+01	1.366+03	4.421-10	2.840-06	71	77	1.984+02	7.657+04	4.518-07	6.305-02
69	150	5.690+01	1.925+03	9.347-10	5.129-06	71	85	1.654+02	1.870+06	7.664-06	6.191-01
69	151	5.690+01	2.082+03	1.414-09	7.761-06	71	87	1.614+02	3.711+04	1.450-07	1.089-02
69	152	5.690+01	3.964+04	3.463-08	1.899-04	71	89	1.607+02	3.522+04	2.273-07	1.685-02
69	153	5.687+01	6.459+02	4.384-10	2.401-06	71	90	1.606+02	1.565+03	1.413-08	1.046-03
70	71	5.515+03	8.071-03	1.577-11	1.103-01	71	91	1.600+02	1.157+05	7.403-07	5.419-02
70	76	1.925+02	3.537+03	1.403-08	4.173-03	71	92	1.596+02	1.168+03	1.041-08	7.566-04
70	77	1.915+02	3.864+02	9.106-10	2.667-04	71	93	1.566+02	1.860+01	6.836-11	4.690-06
70	85	1.605+02	4.334+06	7.177-06	1.238-00	71	102	1.525+02	1.713+04	9.960-08	6.316-03
70	87	1.568+02	6.212+04	9.816-08	1.578-02	71	103	1.525+02	4.844+05	3.940-06	2.496-01
70	88	1.564+02	4.604+03	2.169-08	3.457-03	71	106	1.522+02	2.206+05	1.787-06	1.125-01
70	89	1.561+02	1.032+04	2.694-08	4.277-03	71	115	1.381+02	1.614+06	7.684-06	3.613-01
70	90	1.561+02	6.864+01	2.507-10	3.974-05	71	116	1.379+02	1.075+06	5.109-06	2.394-01
70	91	1.555+02	1.598+03	4.138-09	6.486-04	71	117	1.376+02	1.242+05	8.232-07	3.835-02
70	92	1.551+02	1.099+03	3.966-09	6.173-04	71	118	1.361+02	2.162+06	6.010-06	2.710-01
70	93	1.523+02	4.665+04	6.949-08	1.023-02	71	124	1.317+02	2.211+07	1.342-04	5.481-00
70	102	1.484+02	5.057+02	1.193-09	1.626-04	71	129	1.211+02	4.320+02	9.492-10	3.009-05
70	103	1.484+02	1.203+03	3.971-09	5.409-04	71	130	1.200+02	2.600+03	9.349-09	2.884-04
70	104	1.482+02	2.662+04	1.378-07	1.870-02	71	131	1.192+02	2.230+04	4.756-08	1.441-03
70	106	1.481+02	3.751+03	1.233-08	1.670-03	71	136	9.781+01	1.602+03	3.830-09	6.405-05
70	107	1.481+02	9.149+03	3.865-08	5.230-03	71	137	9.779+01	4.932+04	1.650-07	2.757-03
70	108	1.479+02	8.162+03	3.444-08	4.649-03	71	139	9.765+01	5.048+04	1.684-07	2.801-03
70	109	1.479+02	5.314+03	2.739-08	3.695-03	71	143	6.096+01	3.190-00	1.777-12	7.194-09
70	115	1.347+02	1.673+06	3.250-06	3.311-01	71	144	6.082+01	5.423+02	5.012-10	2.015-06
70	116	1.345+02	1.101+06	2.135-06	2.167-01	71	145	6.073+01	1.657+03	9.161-10	3.666-06
70	117	1.343+02	4.771+06	1.290-05	1.302-00	71	150	5.758+01	3.352+02	2.777-10	9.474-07
70	118	1.329+02	4.224+05	4.792-07	4.687-02	71	151	5.758+01	1.717+04	1.991-08	6.790-05
70	124	1.286+02	4.771+05	1.184-06	1.051-01	71	153	5.754+01	4.660+04	5.397-08	1.838-04
70	125	1.286+02	3.480+06	1.110-05	9.847-01	72	73	1.114+05	2.191-09	5.245-15	3.026-01
70	126	1.286+02	1.947+06	6.205-06	5.500-01	72	74	5.288+04	1.707-08	7.158-15	4.414-02
70	127	1.286+02	3.270+07	1.273-04	1.128+01	72	75	5.028+04	2.023-07	5.476-14	2.903-01
70	129	1.184+02	2.065+03	1.861-09	1.290-04	72	78	1.958+02	3.116+01	7.675-11	2.402-05
70	130	1.174+02	1.120+03	1.653-09	1.115-04	72	79	1.943+02	1.936+02	7.827-10	2.394-04
70	131	1.167+02	6.078+03	5.321-09	3.529-04	72	80	1.933+02	3.888+01	2.178-10	6.558-05
70	136	9.611+01	7.626-00	7.543-12	2.792-07	72	81	1.927+02	1.324+02	3.159-10	9.421-05
70	137	9.609+01	2.014+03	2.788-09	1.031-04	72	82	1.918+02	2.357-00	9.287-12	2.733-06
70	138	9.605+01	2.000+04	3.557-08	1.314-03	72	94	1.637+02	4.346+04	7.482-08	1.368-02
70	139	9.595+01	3.058+02	4.220-10	1.554-05	72	95	1.634+02	1.241+02	3.549-10	6.460-05
70	143	6.029+01	2.387+04	5.576-09	5.095-05	72	96	1.634+02	2.958+01	1.860-10	3.380-05
70	144	6.015+01	1.791+04	6.940-09	6.298-05	72	97	1.634+02	5.196+02	2.673-09	4.858-04
70	145	6.007+01	8.075+04	1.872-08	1.692-04	72	98	1.630+02	1.854+02	7.385-10	1.333-04

Table 4. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric quadrupole (E2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
72	99	1.628+02	1.254+03	3.559-09	6.402-04	73	149	5.982+01	9.939+04	2.962-08	3.399-04
72	100	1.628+02	1.830+02	7.269-10	1.307-04	73	154	5.889+01	4.329+03	1.750-09	1.916-05
72	101	1.627+02	1.036-01	5.283-13	9.484-08	73	155	5.889+01	1.428+01	7.426-12	8.129-08
72	110	1.624+02	1.066+06	1.805-06	3.221-01	73	156	5.888+01	9.986+03	6.344-09	6.942-05
72	111	1.614+02	1.882+05	3.152-07	5.527-02	73	157	5.888+01	3.742+04	1.945-08	2.128-04
72	112	1.609+02	1.457+05	4.038-07	7.010-02	74	75	1.022+06	6.488-14	7.253-18	3.226-01
72	114	1.473+02	2.016-00	2.812-12	3.750-07	74	78	1.965+02	1.348+03	3.343-09	1.058-03
72	120	1.398+02	2.805+06	8.222-06	9.370-01	74	79	1.950+02	2.373+02	9.663-10	2.988-04
72	121	1.397+02	1.158+05	3.389-07	3.856-02	74	80	1.940+02	8.878+01	5.009-10	1.525-04
72	122	1.397+02	3.046+05	1.146-06	1.304-01	74	81	1.934+02	3.578+01	8.598-11	2.592-05
72	123	1.397+02	5.264+05	1.099-06	1.248-01	74	82	1.925+02	7.735+02	3.070-09	9.133-04
72	132	1.088+02	1.841+03	1.399-09	7.505-05	74	94	1.642+02	1.076+03	1.865-09	3.441-04
72	133	1.087+02	1.621+02	2.051-10	1.098-05	74	95	1.639+02	3.145+03	9.051-09	1.663-03
72	134	1.086+02	1.396+01	2.468-11	1.317-06	74	96	1.639+02	2.772-01	1.754-12	3.217-07
72	135	1.069+02	3.861+02	4.729-10	2.411-05	74	97	1.639+02	4.320+01	2.236-10	4.102-05
72	140	6.470+01	9.177-00	2.468-12	2.787-08	74	98	1.635+02	2.013+01	8.067-11	1.470-05
72	146	6.006+01	2.037+05	4.722-08	4.266-04	74	99	1.633+02	1.876+01	5.357-11	9.728-06
72	147	6.005+01	3.367+04	1.300-08	1.174-04	74	100	1.633+02	2.679+02	1.071-09	1.943-04
72	148	6.004+01	1.280+03	6.914-10	6.238-06	74	101	1.632+02	1.851+03	9.500-09	1.721-03
72	149	5.979+01	2.354+02	9.009-11	8.028-07	74	110	1.629+02	4.850+04	8.265-08	1.488-02
72	154	5.886+01	3.708+04	1.926-08	1.637-04	74	111	1.619+02	1.211+06	2.039-06	3.609-01
72	155	5.886+01	1.072+04	7.154-09	6.082-05	74	112	1.614+02	1.588+05	4.429-07	7.760-02
72	156	5.885+01	8.811+02	7.189-10	6.109-06	74	114	1.478+02	1.606+04	2.253-08	3.030-03
72	157	5.885+01	1.330+03	8.880-10	7.546-06	74	120	1.402+02	1.936+04	5.705-08	6.553-03
73	74	1.006+05	5.141-09	6.072-15	3.318-01	74	121	1.401+02	2.811+06	8.272-06	9.486-01
73	75	9.162+04	9.445-10	6.604-16	2.723-02	74	122	1.401+02	3.356+05	1.269-06	1.455-01
73	79	1.946+02	5.293+01	1.670-10	6.602-05	74	123	1.400+02	5.820+05	1.222-06	1.399-01
73	80	1.936+02	3.659+02	1.599-09	6.225-04	74	132	1.090+02	1.386+02	1.057-10	5.706-06
73	82	1.921+02	3.771+02	1.160-09	4.411-04	74	133	1.089+02	4.037+03	5.129-09	2.763-04
73	95	1.637+02	7.855+03	1.753-08	4.120-03	74	134	1.088+02	1.961+04	3.480-08	1.869-03
73	96	1.636+02	5.913+02	2.900-09	6.807-04	74	135	1.072+02	3.084+02	3.791-10	1.945-05
73	97	1.636+02	9.929-00	3.984-11	9.351-06	74	140	6.478+01	5.844+03	1.576-09	1.786-05
73	98	1.632+02	1.727+03	5.366-09	1.251-03	74	146	6.013+01	1.986+03	4.614-10	4.183-06
73	99	1.630+02	2.142+02	4.743-10	1.102-04	74	147	6.012+01	1.969+03	7.622-10	6.906-06
73	100	1.630+02	5.265-00	1.631-11	3.789-06	74	148	6.010+01	4.151+03	2.248-09	2.035-05
73	101	1.629+02	9.925+01	3.950-10	9.157-05	74	149	5.986+01	5.241+01	2.011-11	1.798-07
73	112	1.611+02	1.186+06	2.564-06	5.747-01	74	154	5.892+01	1.182+03	6.154-10	5.249-06
73	120	1.400+02	4.407+05	1.007-06	1.481-01	74	155	5.892+01	4.746+03	3.176-09	2.709-05
73	121	1.399+02	3.799+05	8.671-07	1.273-01	74	156	5.892+01	2.848+04	2.329-08	1.985-04
73	122	1.399+02	3.020+06	8.862-06	1.301-00	74	157	5.892+01	1.062+04	7.102-09	6.056-05
73	123	1.398+02	5.086+04	8.283-08	1.214-02	75	78	1.966+02	4.219+01	1.466-10	3.315-05
73	133	1.088+02	1.260+03	1.242-09	8.576-05	75	79	1.951+02	2.561+02	1.461-09	3.229-04
73	134	1.087+02	8.669+02	1.194-09	8.218-05	75	80	1.940+02	1.507+01	1.191-10	2.591-05
73	135	1.070+02	5.726+02	5.464-10	3.592-05	75	81	1.934+02	4.670+02	1.571-09	3.386-04
73	147	6.009+01	8.435+04	2.536-08	2.949-04	75	82	1.926+02	1.020+02	5.669-10	1.205-04
73	148	6.007+01	1.235+04	5.198-09	6.039-05	75	83	1.860+02	3.881+04	4.027-08	7.720-03

Table 4. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric quadrupole (E2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
75	94	1.642+02	1.546+04	3.751-08	4.947-03	76	115	4.486+02	4.321-00	1.304-10	3.504-04
75	95	1.640+02	8.446+02	3.404-09	4.469-04	76	116	4.468+02	2.337+02	6.996-09	1.859-02
75	97	1.639+02	6.810+01	4.936-10	6.471-05	76	117	4.441+02	7.097+01	2.937-09	7.661-03
75	98	1.635+02	1.371+02	7.693-10	1.002-04	76	118	4.290+02	1.378+02	2.282-09	5.365-03
75	99	1.633+02	1.735-00	6.940-12	9.006-07	76	124	3.879+02	1.170-00	3.696-11	6.426-05
75	100	1.633+02	7.711+02	4.316-09	5.599-04	76	125	3.877+02	7.743-00	3.141-10	5.451-04
75	101	1.632+02	6.664+01	4.790-10	6.203-05	76	126	3.873+02	4.637-02	1.877-12	3.249-06
75	110	1.629+02	3.845+05	9.175-07	1.181-01	76	128	3.091+02	1.183+02	3.389-10	2.983-04
75	111	1.619+02	1.288+05	3.039-07	3.843-02	76	129	3.080+02	7.044+01	6.010-10	5.228-04
75	112	1.614+02	4.371+04	1.707-07	2.137-02	76	130	3.010+02	2.211+01	3.003-10	2.439-04
75	113	1.588+02	1.504+06	1.137-06	1.357-01	76	131	2.966+02	4.195-00	3.319-11	2.579-05
75	114	1.478+02	4.454+03	8.749-09	8.408-04	76	136	1.919+02	1.085+02	5.994-10	1.263-04
75	119	1.442+02	1.750+04	1.091-08	9.745-04	76	137	1.919+02	5.263+02	4.066-09	8.554-04
75	120	1.402+02	4.313+05	1.780-06	1.461-01	76	138	1.917+02	1.648+03	1.635-08	3.430-03
75	121	1.401+02	3.733+05	1.539-06	1.261-01	76	139	1.913+02	1.996+01	1.533-10	3.197-05
75	122	1.401+02	2.547+04	1.349-07	1.105-02	76	142	8.784+01	2.092+04	4.841-09	9.771-05
75	123	1.401+02	2.527+06	7.429-06	6.077-01	76	143	8.779+01	1.346+04	9.333-09	1.881-04
75	132	1.090+02	6.077+02	6.493-10	2.504-05	76	144	8.750+01	6.280+03	7.209-09	1.438-04
75	133	1.089+02	6.107+03	1.086-08	4.182-04	76	145	8.731+01	1.558+03	1.068-09	2.118-05
75	134	1.088+02	3.205+03	7.964-09	3.056-04	76	150	8.095+01	1.740+03	1.710-09	2.701-05
75	135	1.072+02	3.495+03	6.018-09	2.206-04	76	151	8.095+01	8.420+03	1.158-08	1.829-04
75	140	6.478+01	1.638+03	6.183-10	5.007-06	76	152	8.093+01	2.591+04	4.580-08	7.230-04
75	141	6.441+01	5.382+02	6.696-11	5.330-07	76	153	8.088+01	2.540+02	3.488-10	5.495-06
75	146	6.013+01	1.848+03	6.012-10	3.893-06	77	85	9.928+02	3.931+01	5.808-09	1.015-01
75	147	6.013+01	4.761+02	2.580-10	1.670-06	77	87	8.659+02	9.808+01	1.102-08	1.279-01
75	148	6.011+01	6.436+02	4.880-10	3.156-06	77	89	8.456+02	1.945+03	3.475-07	3.754-00
75	149	5.986+01	1.455+02	7.818-11	4.993-07	77	90	8.436+02	5.477+03	1.363-06	1.462+01
75	154	5.892+01	1.096+04	7.991-09	4.869-05	77	91	8.268+02	8.416+03	1.438-06	1.452+01
75	155	5.893+01	7.537+03	7.062-09	4.303-05	77	92	8.169+02	5.375+03	1.255-06	1.222+01
75	157	5.892+01	6.368+02	5.966-10	3.634-06	77	93	7.430+02	1.869+04	1.547-06	1.134+01
76	77	3.765+04	8.225-12	1.049-18	1.666-06	77	102	6.597+02	8.348-01	9.079-11	4.658-04
76	84	9.788+02	2.595+01	7.453-10	2.081-02	77	103	6.588+02	1.304+01	1.980-09	1.012-02
76	85	9.673+02	1.670+01	1.406-09	3.788-02	77	106	6.531+02	1.719+01	2.565-09	1.276-02
76	86	8.598+02	9.205+03	2.040-07	3.861-00	77	115	4.540+02	3.083-01	1.588-11	2.654-05
76	87	8.464+02	9.776+03	6.300-07	1.138+01	77	116	4.522+02	1.391-01	7.109-12	1.175-05
76	88	8.328+02	1.072+04	2.007-06	3.453+01	77	117	4.494+02	9.747-00	6.885-10	1.116-03
76	89	8.270+02	8.794+03	9.016-07	1.519+01	77	118	4.340+02	2.344+03	6.616-08	9.661-02
76	90	8.251+02	5.097+03	7.283-07	1.218+01	77	124	3.920+02	6.710+01	3.606-09	3.881-03
76	91	8.091+02	2.448+03	2.402-07	3.789-00	77	129	3.105+02	2.135+01	3.086-10	1.651-04
76	92	7.995+02	6.972+03	9.354-07	1.424+01	77	130	3.034+02	1.084+01	2.493-10	1.245-04
76	93	7.286+02	2.227+02	1.063-08	1.225-01	77	131	2.990+02	2.897+02	3.882-09	1.853-03
76	102	6.484+02	3.693-01	2.327-11	1.889-04	77	136	1.929+02	2.804+02	2.608-09	3.346-04
76	103	6.475+02	1.331-00	1.171-10	9.466-04	77	137	1.929+02	4.370+02	5.686-09	7.288-04
76	106	6.419+02	1.691-01	1.463-11	1.152-04	77	139	1.923+02	8.311-00	1.075-10	1.366-05
76	107	6.413+02	2.099-00	2.330-10	1.831-03	77	143	8.800+01	4.941+01	5.736-11	6.984-07
76	108	6.393+02	1.601-02	1.766-12	1.374-05	77	144	8.771+01	3.039+03	5.840-09	7.040-05

Table 4. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric quadrupole (E2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
77	145	8.752+01	9.354+03	1.074-08	1.287-04	79	119	5.530+02	2.604+02	2.388-09	1.203-02
77	150	8.112+01	4.798+03	7.890-09	7.527-05	79	120	4.986+02	1.398-01	7.297-12	2.694-05
77	151	8.112+01	9.508+03	2.189-08	2.088-04	79	121	4.976+02	2.535+01	1.317-09	4.834-03
77	153	8.105+01	5.722+03	1.315-08	1.251-04	79	122	4.974+02	3.054+01	2.039-09	7.470-03
78	79	2.566+04	5.563-05	9.152-12	2.763-00	79	123	4.966+02	2.590+01	9.573-10	3.491-03
78	80	1.518+04	3.831-03	3.089-10	1.932+01	79	132	2.470+02	2.658+02	1.459-09	6.550-04
78	81	1.212+04	2.024-04	4.457-12	1.418-01	79	133	2.467+02	5.266+02	4.805-09	2.149-03
78	82	9.466+03	2.645-03	5.922-11	8.976-01	79	134	2.461+02	4.846+02	6.161-09	2.735-03
78	94	9.985+02	3.571+03	5.337-07	9.493-00	79	135	2.378+02	1.706+01	1.447-10	5.796-05
78	95	9.892+02	2.311+03	5.651-07	9.775-00	79	140	9.700+01	1.947+04	1.648-08	4.479-04
78	98	9.729+02	1.211+03	4.011-07	6.600-00	79	141	9.617+01	3.778+03	1.048-09	2.776-05
78	99	9.664+02	3.889+02	9.077-08	1.464-00	79	146	8.694+01	5.449+01	3.705-11	7.250-07
78	100	9.657+02	1.085+02	3.538-08	5.693-01	79	147	8.692+01	2.922+02	3.310-10	6.472-06
78	110	9.508+02	2.045+02	2.772-08	4.256-01	79	148	8.688+01	5.005+03	7.929-09	1.549-04
78	111	9.196+02	2.382+01	3.020-09	4.197-02	79	149	8.636+01	2.315+03	2.588-09	4.965-05
78	112	9.024+02	3.987+01	8.111-09	1.065-01	79	154	8.443+01	4.222+03	6.317-09	1.132-04
78	114	5.954+02	2.280-00	1.212-10	4.572-04	79	155	8.443+01	2.617+04	5.034-08	9.024-04
78	120	4.891+02	1.779-00	1.489-10	3.114-04	79	157	8.442+01	6.773-00	1.303-11	2.333-07
78	121	4.881+02	2.644+02	2.204-08	4.580-02	80	81	6.009+04	2.154-07	4.998-14	4.522-01
78	123	4.871+02	4.729+01	2.804-09	5.792-03	80	82	2.514+04	2.815-04	1.906-11	1.263+01
78	132	2.447+02	1.486+04	1.333-07	3.489-02	80	94	1.069+03	1.384+01	1.016-09	5.169-02
78	133	2.444+02	9.181+03	1.370-07	3.571-02	80	95	1.058+03	1.073+02	1.287-08	6.357-01
78	134	2.438+02	3.459+03	7.190-08	1.861-02	80	96	1.055+03	3.480+03	9.124-07	4.467+01
78	135	2.356+02	1.140+02	1.581-09	3.697-04	80	97	1.055+03	3.729+02	7.998-08	3.914-00
78	140	9.664+01	2.885+02	4.039-10	6.513-06	80	98	1.040+03	4.510+02	7.306-08	3.421-00
78	146	8.664+01	3.039+04	3.420-08	3.975-04	80	99	1.032+03	3.605+01	4.112-09	1.885-01
78	147	8.662+01	4.669+04	8.754-08	1.017-03	80	100	1.031+03	1.594+02	2.542-08	1.163-00
78	148	8.659+01	8.687+04	2.278-07	2.643-03	80	101	1.028+03	1.356+03	2.759-07	1.248+01
78	149	8.607+01	6.061-00	1.122-11	1.279-07	80	110	1.014+03	5.738-00	3.792-10	1.650-02
78	154	8.415+01	3.692+02	9.146-10	9.740-06	80	111	9.789+02	3.588+01	2.209-09	8.641-02
79	80	3.718+04	2.300-05	6.674-12	1.022+01	80	112	9.594+02	1.181-00	1.164-10	4.285-03
79	81	2.297+04	4.923-04	2.337-11	8.434-00	80	114	6.198+02	2.524+02	6.227-09	6.180-02
79	82	1.500+04	4.108-03	1.386-10	1.393+01	80	120	5.054+02	1.132-00	4.335-11	2.334-04
79	83	4.016+03	4.496-00	2.174-09	4.194-00	80	121	5.044+02	8.290-00	3.161-10	1.691-03
79	94	1.039+03	2.618+02	2.542-08	8.489-01	80	122	5.041+02	1.217+01	5.963-10	3.185-03
79	95	1.029+03	3.100+02	4.920-08	1.596-00	80	123	5.033+02	1.877-00	5.090-11	2.705-04
79	97	1.026+03	3.147+03	8.936-07	2.872+01	80	132	2.487+02	8.275-01	3.288-12	2.108-06
79	98	1.011+03	2.457+02	5.274-08	1.624-00	80	133	2.484+02	4.040-00	2.668-11	1.704-05
79	99	1.004+03	6.164+02	9.320-08	2.811-00	80	134	2.478+02	7.566-00	6.963-11	4.415-05
79	100	1.003+03	1.778+03	3.756-07	1.130+01	80	135	2.394+02	9.681-04	5.940-15	3.397-09
79	101	9.999+02	2.754+01	7.431-09	2.213-01	80	140	9.725+01	5.330+04	3.239-08	1.242-03
79	110	9.873+02	2.032-00	1.781-10	5.106-03	80	146	8.714+01	3.206+02	1.564-10	4.315-06
79	111	9.538+02	7.248-00	5.931-10	1.533-02	80	147	8.712+01	1.900+03	1.544-09	4.258-05
79	112	9.352+02	9.304-00	1.220-09	2.972-02	80	148	8.708+01	3.030+03	3.445-09	9.486-05
79	113	8.555+02	1.060+02	2.327-09	4.338-02	80	149	8.656+01	5.410-00	4.341-12	1.174-07
79	114	6.096+02	1.184+02	3.959-09	2.671-02	80	154	8.462+01	5.204+02	5.587-10	1.412-05

Table 4. Transition energies ($\AA$), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric quadrupole (E2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
80	155	8.462+01	3.689+03	5.092-09	1.287-04	82	134	2.502+02	2.655+03	3.489-08	1.628-02
80	156	8.461+01	3.631+04	6.124-08	1.547-03	82	135	2.417+02	2.863-01	2.507-12	1.054-06
80	157	8.461+01	2.370+03	3.270-09	8.256-05	82	140	9.763+01	2.704+01	2.318-11	6.425-07
81	82	4.323+04	1.397-05	6.520-12	9.411-00	82	141	9.679+01	2.976+03	8.361-10	2.258-05
81	94	1.088+03	4.587+01	8.142-09	1.874-01	82	146	8.744+01	3.929+03	2.702-09	5.381-05
81	95	1.077+03	1.674+02	4.854-08	1.084-00	82	147	8.743+01	1.014+04	1.161-08	2.311-04
81	98	1.058+03	4.096+02	1.603-07	3.391-00	82	148	8.739+01	1.108+04	1.775-08	3.529-04
81	99	1.050+03	1.475+03	4.065-07	8.412-00	82	149	8.686+01	1.600+03	1.809-09	3.532-05
81	100	1.049+03	1.913+03	7.366-07	1.521+01	82	154	8.491+01	6.096-00	9.224-12	1.682-07
81	110	1.032+03	1.398-00	2.231-10	4.377-03	82	155	8.491+01	3.068+03	5.968-09	1.088-04
81	111	9.951+02	2.809-01	4.171-11	7.345-04	82	157	8.489+01	5.939+03	1.155-08	2.105-04
81	112	9.749+02	1.165-00	2.767-10	4.582-03	83	95	1.383+03	9.359+01	1.342-07	2.117-00
81	114	6.262+02	2.439+01	1.434-09	6.292-03	83	99	1.339+03	3.557+02	4.781-07	6.839-00
81	120	5.097+02	4.744-00	4.311-10	1.020-03	83	112	1.219+03	1.259+01	1.403-08	1.514-01
81	121	5.086+02	3.753-01	3.396-11	7.985-05	83	123	5.666+02	1.030+03	2.478-07	2.685-01
81	123	5.075+02	5.352+01	3.445-09	8.047-03	83	133	2.629+02	9.674+02	5.010-08	5.420-03
81	132	2.497+02	7.002-00	6.545-11	1.821-05	83	135	2.528+02	8.552+02	4.097-08	3.943-03
81	133	2.494+02	1.929+02	2.997-09	8.305-04	83	147	8.884+01	2.991+03	1.769-08	7.390-05
81	134	2.488+02	1.704+03	3.690-08	1.015-02	83	149	8.826+01	1.125+04	6.569-08	2.690-04
81	135	2.403+02	2.050+03	2.959-08	7.338-03	84	89	5.334+03	4.926-03	1.050-10	9.492-02
81	140	9.741+01	3.856+03	5.485-09	9.059-05	84	91	4.667+03	2.363-03	3.859-11	2.337-02
81	146	8.727+01	1.325+04	1.513-08	1.797-04	84	102	1.921+03	2.177-01	6.022-10	2.542-02
81	147	8.725+01	1.396+04	2.655-08	3.150-04	84	115	8.280+02	4.333+03	2.227-06	7.532-00
81	148	8.721+01	1.620+03	4.310-09	5.108-05	84	116	8.222+02	6.734+03	3.412-06	1.130+01
81	149	8.669+01	5.072+03	9.524-09	1.109-04	84	130	4.347+02	3.334+01	4.722-09	2.310-03
81	154	8.474+01	4.889+03	1.228-08	1.335-04	84	136	2.388+02	7.512+02	3.210-08	2.603-03
82	83	5.484+03	7.658-01	6.906-10	3.393-00	84	144	9.609+01	9.490+03	6.568-08	3.471-04
82	94	1.116+03	2.033+02	2.279-08	9.438-01	84	150	8.825+01	3.447+04	2.013-07	8.238-04
82	95	1.105+03	6.483+02	1.186-07	4.761-00	85	87	6.776+03	1.777-03	1.223-11	6.798-02
82	97	1.101+03	2.892+02	9.461-08	3.761-00	85	89	5.703+03	4.626-03	3.759-11	1.246-01
82	98	1.084+03	1.416+03	3.495-07	1.327+01	85	90	5.613+03	2.735-04	3.014-12	9.523-03
82	99	1.076+03	1.483+01	2.576-09	9.566-02	85	91	4.948+03	3.327-03	2.035-11	4.403-02
82	100	1.075+03	8.295-00	2.013-09	7.456-02	85	92	4.610+03	6.071-03	4.514-11	7.902-02
82	101	1.071+03	2.106+03	6.522-07	2.388+01	85	93	2.954+03	1.142-02	1.493-11	6.874-03
82	110	1.057+03	1.434+01	1.441-09	5.067-02	85	102	1.967+03	1.518-01	1.467-10	1.994-02
82	111	1.019+03	1.946-01	1.817-11	5.717-04	85	103	1.958+03	5.806-01	7.790-10	1.046-01
82	112	9.974+02	6.314-00	9.418-10	2.783-02	85	106	1.909+03	2.503-02	3.190-11	3.963-03
82	113	9.072+02	1.470+02	3.628-09	8.067-02	85	115	8.365+02	6.110+03	1.068-06	1.117+01
82	114	6.354+02	1.143-01	4.150-12	3.171-05	85	116	8.305+02	4.204+03	7.245-07	7.414-00
82	119	5.742+02	2.106+02	2.082-09	1.174-02	85	117	8.210+02	1.127+04	2.658-06	2.628+01
82	120	5.158+02	1.053-00	5.878-11	2.402-04	85	118	7.709+02	1.538+04	1.370-06	1.122+01
82	121	5.147+02	3.942+01	2.192-09	8.898-03	85	124	6.477+02	1.537-00	2.255-10	1.095-03
82	122	5.144+02	3.149-00	2.248-10	9.116-04	85	129	4.519+02	1.251+02	3.828-09	6.311-03
82	123	5.136+02	1.027+01	4.061-10	1.638-03	85	130	4.370+02	5.120+01	2.443-09	3.643-03
82	132	2.512+02	9.959+02	5.651-09	2.666-03	85	131	4.278+02	1.035+02	2.839-09	3.971-03
82	133	2.508+02	2.349+03	2.215-08	1.041-02	85	136	2.395+02	4.789+02	6.861-09	1.684-03

Table 4. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric quadrupole (E2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
85	137	2.394+02	6.148+02	1.232-08	3.019-03	88	102	2.927+03	2.282-03	1.629-12	2.190-03
85	139	2.385+02	1.469+02	2.923-09	7.083-04	88	103	2.909+03	2.465-02	2.432-11	3.210-02
85	143	9.655+01	1.410+04	1.971-08	3.171-04	88	104	2.847+03	6.244-01	9.275-10	1.147-00
85	144	9.620+01	1.376+04	3.182-08	5.062-04	88	105	2.832+03	1.252+01	2.174-08	2.648+01
85	145	9.598+01	2.763+03	3.815-09	6.028-05	88	106	2.800+03	3.967-02	3.628-11	4.271-02
85	150	8.834+01	2.136+04	4.166-08	5.133-04	88	107	2.789+03	4.370-01	5.097-10	5.929-01
85	151	8.834+01	2.410+04	6.579-08	8.104-04	88	108	2.751+03	2.040-01	2.315-10	2.584-01
85	153	8.826+01	1.457+04	3.971-08	4.878-04	88	109	2.738+03	2.966-00	4.074-09	4.482-00
86	89	2.170+04	1.979-04	6.987-11	4.255-00	88	115	9.721+02	4.746-03	3.736-13	1.840-05
86	91	1.373+04	4.809-04	6.793-11	1.047-00	88	116	9.640+02	7.529-00	5.828-10	2.799-02
86	102	2.637+03	6.445-00	3.360-08	3.670-00	88	117	9.513+02	3.514-00	3.708-10	1.711-02
86	115	9.379+02	2.303+01	1.518-08	7.461-02	88	124	7.262+02	5.467-03	3.362-13	6.903-06
86	116	9.303+02	4.735+01	3.072-08	1.474-01	88	125	7.254+02	5.214-02	4.113-12	8.415-05
86	130	4.632+02	2.983+01	4.798-09	2.839-03	88	126	7.240+02	1.632-02	1.283-12	2.610-05
86	136	2.471+02	2.210+03	1.011-07	9.092-03	88	127	7.230+02	1.322-01	1.267-11	2.566-04
86	144	9.742+01	5.914+03	4.207-08	2.316-04	88	130	4.714+02	3.153+02	5.834-09	3.275-02
86	150	8.936+01	1.656-00	9.911-12	4.213-08	88	136	2.494+02	4.290-01	2.223-12	1.850-06
87	89	3.601+04	1.366-05	4.425-12	3.693-00	88	137	2.493+02	7.057-00	5.114-11	4.248-05
87	90	3.270+04	1.109-05	4.147-12	2.591-00	88	138	2.490+02	2.759+01	2.566-10	2.124-04
87	91	1.834+04	5.033-05	4.228-12	4.656-01	88	139	2.484+02	2.473-01	1.778-12	1.460-06
87	92	1.442+04	9.680-04	7.043-11	3.775-00	88	144	9.777+01	6.353+04	5.059-08	2.535-03
87	93	5.236+03	2.634-02	1.083-10	2.776-01	88	150	8.967+01	1.658+01	1.110-11	4.291-07
87	102	2.771+03	6.584-00	1.263-08	4.802-00	88	151	8.966+01	2.380+02	2.231-10	8.620-06
87	103	2.755+03	3.380-00	8.972-09	3.351-00	88	152	8.964+01	8.874+02	1.069-09	4.129-05
87	106	2.657+03	3.399-00	8.394-09	2.814-00	88	153	8.958+01	7.606-00	7.116-12	2.742-07
87	115	9.543+02	1.115+01	2.536-09	3.938-02	89	90	3.557+05	3.418-11	9.077-16	1.217-00
87	116	9.465+02	1.409+01	3.153-09	4.777-02	89	91	3.735+04	7.329-06	1.533-12	2.379-00
87	117	9.342+02	5.425+01	1.656-08	2.413-01	89	92	2.406+04	2.314-04	2.810-11	1.165+01
87	118	8.699+02	1.009+02	1.145-08	1.347-01	89	93	6.126+03	6.251-02	2.110-10	1.445-00
87	124	7.162+02	1.140+01	2.045-09	1.342-02	89	102	3.002+03	1.080-00	1.459-09	1.176-00
87	129	4.841+02	1.285+01	4.515-10	9.154-04	89	103	2.983+03	2.821-00	5.268-09	4.163-00
87	130	4.671+02	7.144+01	3.895-09	7.094-03	89	106	2.869+03	1.312-00	2.266-09	1.593-00
87	131	4.566+02	2.188-00	6.837-11	1.163-04	89	107	2.857+03	7.370-00	1.623-08	1.127+01
87	136	2.482+02	2.635+03	4.058-08	1.109-02	89	108	2.817+03	9.771-03	2.092-11	1.393-02
87	137	2.481+02	1.947+03	4.193-08	1.144-02	89	115	9.802+02	4.787-01	6.896-11	1.934-03
87	139	2.472+02	1.207+02	2.580-09	6.961-04	89	116	9.720+02	5.533-00	7.837-10	2.144-02
87	143	9.795+01	3.880+03	5.582-09	9.373-05	89	117	9.590+02	2.369-00	4.574-10	1.202-02
87	144	9.759+01	1.266+04	3.013-08	5.003-04	89	118	8.914+02	1.081+01	7.729-10	1.630-02
87	145	9.736+01	5.046+02	7.171-10	1.182-05	89	124	7.307+02	1.367-00	1.531-10	1.780-03
87	150	8.951+01	1.687+02	3.378-10	4.328-06	89	125	7.299+02	1.239+01	1.780-09	2.062-02
87	151	8.950+01	1.627+02	4.559-10	5.841-06	89	126	7.285+02	2.919-01	4.181-11	4.815-04
87	153	8.942+01	1.223+02	3.420-10	4.370-06	89	128	4.937+02	5.981+01	4.372-10	1.567-03
88	89	1.177+05	2.935-08	3.387-14	2.960-00	89	129	4.907+02	3.724+01	8.066-10	2.839-03
88	90	8.844+04	2.438-07	2.224-13	8.244-00	89	130	4.733+02	6.799+01	2.283-09	7.207-03
88	91	2.835+04	1.070-05	7.165-13	8.756-01	89	131	4.625+02	8.428-00	1.621-10	4.775-04
88	92	1.997+04	5.083-04	2.364-11	1.010+01	89	136	2.500+02	5.596+02	5.242-09	2.438-03

Table 4. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric quadrupole (E2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
89	137	2.498+02	1.417+03	1.856-08	8.619-03	91	103	3.242+03	8.874-02	1.957-10	1.985-01
89	138	2.496+02	1.916+03	3.221-08	1.491-02	91	106	3.107+03	1.897-00	3.844-09	3.435-00
89	139	2.489+02	3.658+02	4.755-09	2.183-03	91	107	3.094+03	2.307-01	5.957-10	5.252-01
89	142	9.828+01	1.570+04	4.546-09	1.285-04	91	108	3.047+03	6.445-00	1.615-08	1.360+01
89	143	9.822+01	9.316+03	8.084-09	2.281-04	91	115	1.007+03	5.785-03	8.789-13	2.670-05
89	144	9.785+01	1.009+04	1.449-08	4.044-04	91	116	9.980+02	2.096-00	3.129-10	9.263-03
89	145	9.762+01	9.740+02	8.350-10	2.313-05	91	117	9.843+02	9.570-02	1.946-11	5.527-04
89	150	8.973+01	1.904+02	2.299-10	4.947-06	91	118	9.132+02	2.933+01	2.200-09	4.990-02
89	151	8.973+01	1.398+02	2.362-10	5.082-06	91	124	7.453+02	3.007-00	3.506-10	4.323-03
89	152	8.971+01	3.207+02	6.966-10	1.498-05	91	125	7.444+02	1.190-02	1.780-12	2.187-05
89	153	8.964+01	6.270+02	1.058-09	2.269-05	91	126	7.430+02	3.300-00	4.917-10	6.007-03
90	91	4.174+04	1.954-05	3.644-12	1.105+01	91	128	5.003+02	3.187+01	2.392-10	8.922-04
90	92	2.580+04	5.187-05	5.176-12	3.706-00	91	129	4.973+02	3.568+01	7.936-10	2.906-03
90	93	6.234+03	2.830-02	7.067-11	7.137-01	91	130	4.793+02	8.053-00	2.774-10	9.099-04
90	102	3.027+03	5.390-02	5.290-11	6.120-02	91	131	4.682+02	1.380+01	2.722-10	8.323-04
90	103	3.008+03	4.686-02	6.356-11	7.212-02	91	136	2.516+02	8.994+01	8.539-10	4.053-04
90	104	2.942+03	8.744-00	1.783-08	1.892+01	91	137	2.515+02	9.008+01	1.196-09	5.668-04
90	106	2.892+03	5.898-01	7.395-10	7.458-01	91	138	2.512+02	1.226+02	2.088-09	9.859-04
90	107	2.880+03	3.948-01	6.312-10	6.287-01	91	139	2.506+02	4.989+02	6.573-09	3.079-03
90	108	2.840+03	2.927-00	4.549-09	4.342-00	91	142	9.854+01	9.694+03	2.822-09	8.041-05
90	109	2.825+03	4.533-01	8.524-10	8.015-01	91	143	9.848+01	9.508+03	8.294-09	2.359-04
90	115	9.830+02	8.643-01	8.943-11	3.541-03	91	144	9.811+01	8.829+02	1.274-09	3.583-05
90	116	9.747+02	1.435-00	1.459-10	5.634-03	91	145	9.788+01	9.239+02	7.962-10	2.223-05
90	117	9.617+02	6.664-01	9.239-11	3.425-03	91	150	8.995+01	1.431-00	1.735-12	3.761-08
90	118	8.937+02	7.342-00	3.767-10	1.121-02	91	151	8.994+01	1.014+03	1.721-09	3.729-05
90	124	7.322+02	3.570-01	2.870-11	4.697-04	91	152	8.993+01	8.376+01	1.828-10	3.959-06
90	125	7.314+02	1.022-00	1.054-10	1.719-03	91	153	8.986+01	1.709+03	2.896-09	6.258-05
90	126	7.300+02	4.235-02	4.351-12	7.057-05	92	93	8.220+03	1.144-03	4.965-12	1.150-01
90	127	7.290+02	5.897-00	7.382-10	1.192-02	92	102	3.430+03	3.234-02	4.074-11	6.854-02
90	129	4.914+02	1.493+02	2.317-09	1.146-02	92	103	3.405+03	2.316-01	4.025-10	6.625-01
90	130	4.739+02	6.867+01	1.651-09	7.327-03	92	104	3.320+03	5.531-01	1.437-09	2.193-00
90	131	4.630+02	5.166-00	7.116-11	2.946-04	92	106	3.257+03	1.060-01	1.686-10	2.429-01
90	136	2.501+02	1.591+01	1.066-10	6.958-05	92	107	3.242+03	1.814-00	3.675-09	5.221-00
90	137	2.500+02	5.953+01	5.579-10	3.635-04	92	108	3.191+03	3.491-03	6.850-12	9.277-03
90	138	2.497+02	3.359+01	4.038-10	2.622-04	92	109	3.173+03	5.366-00	1.272-08	1.694+01
90	139	2.491+02	2.933-00	2.727-11	1.756-05	92	115	1.022+03	6.918-01	7.736-11	3.442-03
90	143	9.824+01	3.764+04	2.334-08	9.228-04	92	116	1.013+03	6.969-00	7.657-10	3.318-02
90	144	9.788+01	1.172+04	1.203-08	4.703-04	92	117	9.989+02	3.724-04	5.570-14	2.315-06
90	145	9.765+01	1.821+03	1.116-09	4.331-05	92	118	9.257+02	2.023-00	1.114-10	3.685-03
90	150	8.976+01	1.172+02	1.011-10	3.049-06	92	124	7.536+02	1.221-01	1.040-11	1.855-04
90	151	8.975+01	2.551+02	3.080-10	9.285-06	92	125	7.527+02	1.079-00	1.178-10	2.094-03
90	152	8.974+01	5.132+02	7.966-10	2.400-05	92	126	7.513+02	1.013-02	1.103-12	1.949-05
90	153	8.967+01	8.266+02	9.964-10	2.995-05	92	127	7.502+02	4.292-02	5.691-12	1.002-04
91	92	6.757+04	8.551-08	8.193-14	7.526-01	92	129	5.010+02	1.087+01	1.752-10	9.186-04
91	93	7.328+03	1.511-01	7.299-10	8.554-00	92	130	4.828+02	2.318+01	5.785-10	2.714-03
91	102	3.264+03	1.794-01	2.865-10	2.968-01	92	131	4.715+02	2.845+01	4.064-10	1.776-03

Table 4. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric quadrupole (E2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
92	136	2.526+02	2.464+01	1.684-10	1.131-04	94	140	1.070+02	1.502+02	2.578-10	5.641-06
92	137	2.525+02	1.632+02	1.559-09	1.046-03	94	146	9.488+01	7.050+03	9.515-09	1.452-04
92	138	2.522+02	4.288+02	5.256-09	3.514-03	94	147	9.485+01	1.231+04	2.767-08	4.220-04
92	139	2.515+02	5.164-00	4.896-11	3.246-05	94	148	9.481+01	1.107+02	3.481-10	5.300-06
92	143	9.862+01	1.597+03	9.980-10	3.991-05	94	149	9.419+01	1.696+02	3.760-10	5.615-06
92	144	9.825+01	2.224+03	2.299-09	9.092-05	94	154	9.190+01	1.912+05	5.648-07	7.833-03
92	145	9.802+01	8.892+03	5.489-09	2.155-04	95	97	3.346+05	5.228-12	1.580-16	1.764-01
92	150	9.007+01	3.007+01	2.612-11	7.958-07	95	98	5.886+04	1.934-06	1.406-12	8.541-00
92	151	9.006+01	5.067+02	6.162-10	1.877-05	95	99	4.192+04	2.181-06	5.747-13	1.261-00
92	152	9.005+01	1.308+03	2.045-09	6.225-05	95	100	4.054+04	1.957-07	6.749-14	1.339-01
92	153	8.998+01	6.859+02	8.326-10	2.529-05	95	101	3.549+04	3.157-06	1.073-12	1.429-00
93	102	5.886+03	1.652-03	1.430-11	5.209-02	95	110	2.444+04	4.091-07	2.197-14	9.546-03
93	103	5.813+03	1.269-01	1.499-09	5.263-00	95	111	1.307+04	1.608-04	2.472-12	1.644-01
93	106	5.395+03	1.763-01	1.795-09	5.036-00	95	112	1.027+04	7.030-05	1.112-12	3.593-02
93	115	1.167+03	4.630-01	1.576-10	4.474-03	95	113	5.075+03	2.468-05	1.906-14	7.417-05
93	116	1.155+03	2.536-01	8.458-11	2.331-03	95	114	1.496+03	2.963-00	5.964-10	5.943-02
93	117	1.137+03	2.569+01	1.162-08	3.052-01	95	119	1.196+03	7.806-01	3.346-11	1.704-03
93	118	1.043+03	3.681+01	6.006-09	1.218-01	95	120	9.676+02	4.590-00	9.018-10	2.433-02
93	124	8.297+02	7.054+01	1.699-08	1.734-01	95	121	9.636+02	4.646-00	9.054-10	2.413-02
93	129	5.335+02	1.543+01	6.581-10	1.785-03	95	122	9.628+02	3.201+01	8.006-09	2.128-01
93	130	5.129+02	4.469-01	2.937-11	7.080-05	95	123	9.598+02	2.618-00	3.615-10	9.518-03
93	131	5.002+02	5.015-00	1.881-10	4.207-04	95	132	3.251+02	1.382+02	1.314-09	1.344-03
93	136	2.606+02	9.493-00	1.611-10	5.094-05	95	133	3.245+02	4.823-02	7.615-13	7.751-07
93	137	2.605+02	1.121+02	2.660-09	8.398-04	95	134	3.235+02	9.005-01	1.978-11	1.994-05
93	139	2.594+02	2.071+03	4.875-08	1.521-02	95	135	3.093+02	3.868-01	5.550-12	4.892-06
93	143	9.982+01	5.492+03	8.204-09	1.458-04	95	140	1.071+02	1.057+03	1.090-09	3.988-05
93	144	9.944+01	1.535+02	3.792-10	6.663-06	95	141	1.061+02	7.077+03	2.388-09	8.493-05
93	145	9.920+01	7.144+03	1.054-08	1.839-04	95	146	9.496+01	1.589+04	1.289-08	3.286-04
93	150	9.107+01	2.294+02	4.754-10	6.415-06	95	147	9.494+01	3.372+03	4.557-09	1.161-04
93	151	9.106+01	5.972+02	1.732-09	2.338-05	95	148	9.489+01	4.631+03	8.753-09	2.227-04
93	153	9.098+01	6.320+02	1.830-09	2.462-05	95	149	9.428+01	1.880+03	2.505-09	6.252-05
94	95	1.070+05	8.719-08	2.494-13	5.457-00	95	154	9.198+01	4.016+04	7.131-08	1.653-03
94	98	3.797+04	2.658-06	1.341-12	1.312-00	95	155	9.198+01	5.041+04	1.151-07	2.667-03
94	99	3.012+04	1.352-05	3.066-12	1.497-00	95	157	9.196+01	1.134+05	2.587-07	5.992-03
94	100	2.940+04	3.164-06	9.566-13	4.343-01	96	97	7.057+06	1.855-17	1.133-19	2.610-00
94	110	1.989+04	1.127-05	6.683-13	9.399-02	96	98	7.071+04	8.175-08	3.900-14	9.033-01
94	111	1.165+04	9.881-04	2.010-11	5.675-01	96	100	4.582+04	2.546-07	5.100-14	3.215-01
94	112	9.374+03	4.494-04	9.867-12	1.452-01	96	101	3.948+04	1.122-05	2.146-12	8.651-00
94	114	1.475+03	1.174-00	3.829-10	2.197-02	96	120	9.702+02	2.804-02	2.518-12	1.507-04
94	120	9.589+02	1.569+02	5.046-08	7.950-01	96	121	9.663+02	1.040-00	9.266-11	5.477-03
94	121	9.550+02	3.450-00	1.101-09	1.713-02	96	122	9.654+02	1.245-00	1.424-10	8.392-03
94	123	9.512+02	4.753+01	1.074-08	1.653-01	96	134	3.238+02	2.570+02	2.571-09	5.718-03
94	132	3.241+02	4.763+01	7.499-10	4.561-04	96	148	9.492+01	3.896+04	3.349-08	1.876-03
94	133	3.235+02	2.391-00	6.253-11	3.784-05	96	154	9.200+01	6.015-00	4.857-12	2.478-07
94	134	3.225+02	5.238-00	1.906-10	1.142-04	96	155	9.200+01	1.078+02	1.119-10	5.710-06
94	135	3.085+02	9.946-00	2.364-10	1.240-04	96	156	9.199+01	1.117+03	1.417-09	7.225-05

Table 4. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric quadrupole (E2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
96	157	9.199+01	6.949+01	7.212-11	3.678-06	99	110	5.857+04	3.259-08	1.006-14	6.018-02
97	98	7.143+04	1.340-08	7.974-15	1.558-01	99	111	1.899+04	1.260-06	4.088-14	8.339-03
97	99	4.793+04	4.580-07	8.764-14	5.173-01	99	112	1.361+04	6.475-06	1.798-13	1.350-02
97	100	4.612+04	5.961-06	1.479-12	7.777-00	99	113	5.773+03	3.212-02	3.210-11	1.840-01
97	101	3.970+04	1.103-06	2.607-13	8.746-01	99	114	1.551+03	2.831-02	6.127-12	6.809-04
97	112	1.060+04	9.584-07	8.968-15	5.725-04	99	119	1.231+03	5.316-00	2.414-10	1.341-02
97	120	9.704+02	1.110-00	1.219-10	5.969-03	99	120	9.904+02	3.096-03	6.373-13	1.844-05
97	121	9.664+02	1.750-02	1.906-12	9.220-05	99	121	9.863+02	2.405-02	4.911-12	1.403-04
97	122	9.655+02	7.559-02	1.057-11	5.098-04	99	122	9.854+02	2.668-02	6.990-12	1.992-04
97	123	9.625+02	1.525-00	1.177-10	5.625-03	99	123	9.823+02	2.147-02	3.105-12	8.763-05
97	133	3.248+02	1.159+02	1.019-09	1.872-03	99	132	3.276+02	2.604+02	2.514-09	2.632-03
97	134	3.238+02	3.662+01	4.477-10	8.148-04	99	133	3.270+02	9.364+01	1.502-09	1.564-03
97	135	3.096+02	1.588+02	1.268-09	2.018-03	99	134	3.260+02	6.323-00	1.410-10	1.455-04
97	147	9.496+01	2.035+04	1.529-08	7.018-04	99	135	3.116+02	2.279-00	3.319-11	2.991-05
97	148	9.492+01	3.195+03	3.356-09	1.539-04	99	140	1.074+02	1.003+01	1.040-11	3.834-07
97	149	9.430+01	2.099+04	1.555-08	6.990-04	99	141	1.064+02	2.684+04	9.103-09	3.262-04
97	154	9.200+01	1.076+02	1.062-10	4.433-06	99	146	9.518+01	3.354+03	2.733-09	7.017-05
97	155	9.201+01	1.020+03	1.294-09	5.403-05	99	147	9.515+01	2.978+02	4.042-10	1.037-05
97	156	9.199+01	9.414+01	1.460-10	6.091-06	99	148	9.511+01	4.493-01	8.529-13	2.185-08
97	157	9.199+01	4.793+01	6.080-11	2.537-06	99	149	9.449+01	4.758+03	6.369-09	1.600-04
98	99	1.457+05	2.014-10	4.579-16	5.905-02	99	154	9.218+01	1.124+03	2.004-09	4.676-05
98	100	1.302+05	4.265-09	1.084-14	9.971-01	99	155	9.218+01	2.838+04	6.509-08	1.518-03
98	101	8.939+04	2.290-07	3.526-13	1.050+01	99	157	9.216+01	2.058+04	4.718-08	1.100-03
98	110	4.178+04	2.223-07	2.493-14	7.578-02	100	101	2.852+05	1.460-11	2.289-16	2.215-01
98	111	1.680+04	5.401-08	9.797-16	1.937-04	100	110	6.152+04	5.269-09	1.281-15	1.244-02
98	112	1.245+04	5.312-05	8.812-13	7.085-02	100	111	1.929+04	3.339-07	7.985-15	2.390-03
98	114	1.535+03	2.955-00	4.473-10	6.741-02	100	112	1.376+04	1.643-06	3.331-14	3.621-03
98	120	9.837+02	2.388-04	3.464-14	1.375-06	100	114	1.553+03	5.166-02	8.007-12	1.250-03
98	121	9.797+02	8.638-02	1.243-11	4.872-04	100	120	9.912+02	1.876-01	2.763-11	1.122-03
98	122	9.788+02	3.918-02	7.234-12	2.828-04	100	121	9.871+02	3.993-01	5.833-11	2.339-03
98	123	9.757+02	1.346-01	1.372-11	5.313-04	100	122	9.862+02	2.283-02	4.280-12	1.712-04
98	132	3.269+02	1.035+02	7.104-10	1.034-03	100	123	9.830+02	2.667-00	2.760-10	1.093-02
98	133	3.263+02	2.292+02	2.614-09	3.787-03	100	132	3.277+02	5.947-01	4.103-12	6.019-06
98	134	3.253+02	1.604+01	2.544-10	3.651-04	100	133	3.271+02	1.854+02	2.125-09	3.102-03
98	135	3.110+02	8.344+01	8.641-10	1.083-03	100	134	3.261+02	5.773+01	9.203-10	1.331-03
98	140	1.073+02	1.441+03	1.066-09	5.487-05	100	135	3.117+02	1.779+02	1.851-09	2.338-03
98	146	9.512+01	1.856+03	1.079-09	3.871-05	100	140	1.074+02	2.390+01	1.771-11	9.141-07
98	147	9.509+01	1.094+04	1.060-08	3.800-04	100	146	9.518+01	7.691+03	4.477-09	1.610-04
98	148	9.505+01	3.882+03	5.257-09	1.882-04	100	147	9.516+01	4.515+03	4.378-09	1.573-04
98	149	9.443+01	6.142+02	5.865-10	2.059-05	100	148	9.511+01	1.432+03	1.942-09	6.967-05
98	154	9.212+01	1.693+03	2.154-09	7.023-05	100	149	9.450+01	8.238+02	7.877-10	2.771-05
98	155	9.212+01	1.090+04	1.784-08	5.814-04	100	154	9.219+01	2.766+02	3.524-10	1.151-05
98	156	9.211+01	9.932+04	1.985-07	6.468-03	100	155	9.219+01	4.848+01	7.942-11	2.594-06
98	157	9.211+01	8.626+03	1.410-08	4.595-04	100	156	9.217+01	1.610+03	3.222-09	1.052-04
99	100	1.223+06	3.979-13	1.249-16	6.808-00	100	157	9.217+01	1.118+02	1.830-10	5.976-06
99	101	2.313+05	3.126-11	4.512-16	1.663-01	101	112	1.446+04	6.150-06	1.071-13	1.736-02

Table 4. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric quadrupole (E2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
101	120	9.947+02	2.416-02	2.788-12	1.470-04	103	115	1.460+03	2.386-02	5.447-12	7.069-04
101	121	9.905+02	3.936-00	4.503-10	2.346-02	103	116	1.442+03	2.536-01	5.646-11	7.058-03
101	122	9.896+02	1.547-01	2.271-11	1.180-03	103	117	1.414+03	1.176-02	3.524-12	4.150-04
101	123	9.865+02	2.605-01	2.111-11	1.086-03	103	118	1.271+03	7.680-00	7.977-10	6.835-02
101	133	3.275+02	4.292+01	3.834-10	7.220-04	103	124	9.678+02	2.541-04	3.568-14	1.348-06
101	134	3.265+02	5.106+02	6.345-09	1.184-02	103	125	9.663+02	1.678-02	3.021-12	1.137-04
101	135	3.121+02	5.168+01	4.191-10	6.828-04	103	126	9.640+02	8.694-02	1.557-11	5.816-04
101	147	9.519+01	5.742+02	4.334-10	2.004-05	103	127	9.622+02	1.122-00	2.446-10	9.084-03
101	148	9.515+01	6.925+03	7.310-09	3.376-04	103	129	5.874+02	7.706-00	1.708-10	1.443-03
101	149	9.453+01	7.952+03	5.918-09	2.680-04	103	130	5.625+02	9.032-00	3.060-10	2.271-03
101	154	9.222+01	1.001+01	9.930-12	4.174-07	103	131	5.473+02	6.136+01	1.181-09	8.072-03
101	155	9.222+01	4.049+01	5.162-11	2.170-06	103	136	2.728+02	1.101+02	8.779-10	7.434-04
101	156	9.220+01	3.090+02	4.814-10	2.023-05	103	137	2.727+02	1.060+02	1.181-09	9.986-04
101	157	9.220+01	1.805+02	2.300-10	9.664-06	103	138	2.723+02	5.329+01	7.619-10	6.416-04
102	103	4.682+05	1.188-11	5.465-16	1.670-00	103	139	2.715+02	2.624+02	2.901-09	2.421-03
102	106	6.467+04	3.303-07	2.899-13	2.335-00	103	143	1.016+02	3.354+01	2.223-11	9.708-07
102	107	5.917+04	5.446-08	5.145-14	3.174-01	103	144	1.012+02	6.312+01	6.918-11	2.987-06
102	108	4.575+04	7.319-08	4.134-14	1.179-01	103	145	1.009+02	5.880+02	3.848-10	1.649-05
102	115	1.456+03	3.076-03	9.769-13	8.971-05	103	150	9.252+01	7.884+03	7.227-09	2.386-04
102	116	1.438+03	7.048-02	2.183-11	1.931-03	103	151	9.251+01	9.201+03	1.181-08	3.897-04
102	117	1.409+03	2.394-03	9.978-13	8.318-05	103	152	9.250+01	4.395+03	7.247-09	2.391-04
102	118	1.268+03	3.514-01	5.082-11	3.085-03	103	153	9.242+01	2.118+04	2.712-08	8.927-04
102	124	9.658+02	4.748-03	9.296-13	2.494-05	104	105	5.465+05	1.737-12	9.193-17	9.832-01
102	125	9.643+02	3.835-03	9.625-13	2.571-05	104	106	1.708+05	1.718-10	4.784-16	1.563-01
102	126	9.620+02	8.472-01	2.116-10	5.610-03	104	107	1.372+05	5.884-11	1.358-16	2.295-02
102	128	5.909+02	6.887+01	7.210-10	4.430-03	104	108	8.164+04	1.232-07	1.007-13	3.590-00
102	129	5.866+02	2.001+01	6.193-10	3.724-03	104	109	7.132+04	1.213-08	9.253-15	2.200-01
102	130	5.618+02	2.158-00	1.021-10	5.393-04	104	117	1.429+03	1.432-01	2.788-11	5.326-03
102	131	5.467+02	3.641-00	9.788-11	4.762-04	104	124	9.749+02	1.081-00	9.803-11	5.951-03
102	136	2.727+02	3.642+02	4.060-09	2.451-03	104	125	9.734+02	5.786-02	6.724-12	4.063-04
102	137	2.725+02	1.094+02	1.705-09	1.028-03	104	126	9.710+02	5.256-01	6.079-11	3.646-03
102	138	2.722+02	4.172-00	8.340-11	5.009-05	104	127	9.691+02	2.032-02	2.861-12	1.706-04
102	139	2.714+02	4.229-00	6.536-11	3.891-05	104	137	2.732+02	1.391+01	9.907-11	1.324-04
102	142	1.016+02	4.574+02	1.416-10	4.422-06	104	138	2.729+02	3.884-01	3.548-12	4.724-06
102	143	1.015+02	1.308+02	1.213-10	3.782-06	104	139	2.721+02	1.694-02	1.197-13	1.579-07
102	144	1.012+02	1.400+01	2.148-11	6.621-07	104	151	9.257+01	4.678+03	3.825-09	1.988-04
102	145	1.009+02	2.457+01	2.250-11	6.885-07	104	152	9.256+01	3.014+02	3.167-10	1.646-05
102	150	9.250+01	2.902+04	3.722-08	8.774-04	104	153	9.249+01	4.046+03	3.302-09	1.711-04
102	151	9.249+01	8.780+03	1.576-08	3.715-04	105	107	1.831+05	1.149-10	3.997-16	1.900-01
102	152	9.248+01	3.344+02	7.717-10	1.818-05	105	108	9.598+04	1.675-09	1.601-15	1.096-01
102	153	9.240+01	2.731+02	4.894-10	1.150-05	105	109	8.203+04	1.138-07	9.715-14	4.152-00
103	104	1.338+05	3.000-13	1.265-18	1.263-04	105	125	9.751+02	1.121-00	1.106-10	7.942-03
103	106	7.503+04	3.007-08	2.538-14	4.470-01	105	126	9.727+02	5.775-02	5.671-12	4.041-04
103	107	6.773+04	3.187-07	2.818-13	3.650-00	105	127	9.708+02	5.435-01	6.498-11	4.604-03
103	108	5.070+04	1.051-08	5.208-15	2.830-02	105	138	2.730+02	2.724+01	2.108-10	3.322-04
103	109	4.652+04	1.107-07	5.644-14	2.369-01	105	152	9.257+01	6.974+03	6.203-09	3.811-04

Table 4. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric quadrupole (E2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
106	107	6.957+05	7.378-13	6.882-17	9.660-01	108	116	1.484+03	8.352-05	1.532-14	2.685-06
106	108	1.564+05	4.716-09	2.222-14	3.543-00	108	117	1.454+03	1.723-02	4.247-12	7.000-04
106	109	1.224+05	7.063-10	2.494-15	1.909-01	108	124	9.867+02	1.365-00	1.549-10	7.978-03
106	115	1.489+03	9.299-02	2.208-11	3.039-03	108	125	9.851+02	1.552-01	2.258-11	1.157-03
106	116	1.470+03	2.842-02	6.578-12	8.715-04	108	126	9.827+02	3.330-01	4.821-11	2.452-03
106	117	1.441+03	1.375-02	4.280-12	5.336-04	108	127	9.808+02	3.514-02	6.193-12	3.132-04
106	118	1.293+03	3.651-00	3.924-10	3.539-02	108	130	5.688+02	2.007-01	5.409-12	5.337-05
106	124	9.805+02	1.274-01	1.837-11	7.218-04	108	136	2.743+02	4.456+01	2.793-10	3.090-04
106	125	9.789+02	1.251-02	2.311-12	9.037-05	108	137	2.741+02	7.697+01	6.745-10	7.450-04
106	126	9.765+02	1.280-01	2.353-11	9.137-04	108	138	2.738+02	2.045+01	2.299-10	2.530-04
106	127	9.747+02	5.426-02	1.214-11	4.688-04	108	139	2.730+02	1.421+02	1.235-09	1.347-03
106	129	5.920+02	1.815+01	4.086-10	3.535-03	108	144	1.014+02	1.073-00	9.182-13	5.128-08
106	130	5.668+02	2.308-00	7.938-11	6.025-04	108	150	9.269+01	1.614+03	1.155-09	4.930-05
106	131	5.513+02	1.444+01	2.819-10	1.970-03	108	151	9.268+01	6.831+02	6.841-10	2.920-05
106	136	2.738+02	3.119+02	2.504-09	2.144-03	108	152	9.266+01	3.674+02	4.729-10	2.017-05
106	137	2.737+02	8.497-00	9.540-11	8.153-05	108	153	9.259+01	3.914+02	3.913-10	1.665-05
106	138	2.733+02	6.605-00	9.511-11	8.099-05	109	117	1.458+03	2.492-03	5.053-13	1.026-04
106	139	2.725+02	1.263+02	1.407-09	1.187-03	109	124	9.884+02	8.246-02	7.685-12	4.862-04
106	143	1.017+02	1.347+02	8.952-11	3.926-06	109	125	9.868+02	1.321-00	1.578-10	9.939-03
106	144	1.013+02	1.180+01	1.297-11	5.621-07	109	126	9.844+02	6.180-02	7.345-12	4.590-04
106	145	1.011+02	1.692+02	1.111-10	4.779-06	109	127	9.825+02	3.985-01	5.767-11	3.583-03
106	150	9.263+01	4.263+03	3.918-09	1.298-04	109	137	2.743+02	5.241+01	3.762-10	5.086-04
106	151	9.262+01	4.587+03	5.899-09	1.955-04	109	138	2.740+02	1.913+02	1.761-09	2.372-03
106	152	9.261+01	9.868+02	1.631-09	5.402-05	109	139	2.731+02	3.388-00	2.411-11	3.219-05
106	153	9.254+01	9.374+03	1.203-08	3.976-04	109	151	9.270+01	1.954+02	1.602-10	8.358-06
107	108	2.017+05	1.178-10	7.188-16	3.162-01	109	152	9.268+01	1.123+03	1.184-09	6.173-05
107	109	1.486+05	7.306-09	2.956-14	5.198-00	109	153	9.261+01	1.699+03	1.390-09	7.232-05
107	115	1.492+03	2.783-02	5.162-12	9.195-04	110	111	2.810+04	1.976-04	2.339-11	9.278-00
107	116	1.473+03	1.750-01	3.163-11	5.422-03	110	112	1.773+04	1.688-03	1.326-10	1.320+01
107	117	1.444+03	6.707-02	1.630-11	2.630-03	110	114	1.593+03	8.307-00	3.161-09	2.285-01
107	124	9.819+02	4.691-02	5.273-12	2.675-04	110	120	1.008+03	3.084+03	1.095-06	2.001+01
107	125	9.803+02	9.623-02	1.386-11	7.002-04	110	121	1.003+03	6.677+01	2.351-08	4.241-01
107	126	9.779+02	4.162-02	5.966-12	2.991-04	110	123	9.990+02	1.564+03	3.900-07	6.948-00
107	127	9.760+02	1.571-01	2.743-11	1.367-03	110	132	3.294+02	4.458+02	7.254-09	4.635-03
107	130	5.672+02	2.471+01	6.622-10	6.478-03	110	133	3.289+02	8.456+02	2.285-08	1.453-02
107	136	2.739+02	4.457+01	2.785-10	3.070-04	110	134	3.278+02	8.314+02	3.126-08	1.968-02
107	137	2.738+02	2.096+02	1.832-09	2.015-03	110	135	3.133+02	3.461+02	8.488-09	4.664-03
107	138	2.734+02	8.545+01	9.578-10	1.050-03	110	140	1.076+02	1.555+04	2.697-08	5.999-04
107	139	2.726+02	1.426+02	1.236-09	1.342-03	110	146	9.533+01	4.979+04	6.784-08	1.050-03
107	144	1.013+02	1.482+02	1.267-10	7.068-06	110	147	9.531+01	6.860+04	1.557-07	2.409-03
107	150	9.264+01	3.959+02	2.830-10	1.206-05	110	148	9.526+01	5.073+04	1.610-07	2.488-03
107	151	9.264+01	5.895+03	5.899-09	2.514-04	110	149	9.464+01	3.395+03	7.598-09	1.151-04
107	152	9.262+01	1.302+04	1.675-08	7.135-04	110	154	9.233+01	7.232+03	2.156-08	3.032-04
107	153	9.255+01	8.688+02	8.677-10	3.687-05	111	112	4.802+04	3.662-06	2.110-12	4.175-00
108	109	5.642+05	6.806-13	3.971-17	3.824-01	111	114	1.689+03	1.517-00	6.489-10	5.587-02
108	115	1.503+03	5.813-02	1.094-11	1.993-03	111	120	1.045+03	3.206+02	1.225-07	2.496-00

Table 4. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric quadrupole (E2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
111	121	1.040+03	3.013+03	1.141-06	2.295+01	114	147	1.014+02	1.947+07	4.998-05	9.304-01
111	123	1.036+03	4.226+02	1.133-07	2.250-00	114	148	1.013+02	1.956+07	7.024-05	1.306-00
111	132	3.334+02	7.353+02	1.225-08	8.108-03	114	149	1.006+02	6.469+04	1.636-07	2.979-03
111	133	3.328+02	2.327+03	6.438-08	4.239-02	114	154	9.801+01	1.265-00	4.249-12	7.147-08
111	134	3.317+02	6.816+03	2.624-07	1.711-01	115	116	1.159+05	1.791-08	3.605-14	1.671-00
111	135	3.168+02	7.011+01	1.759-09	9.994-04	115	117	4.438+04	6.254-06	2.585-12	6.728-00
111	140	1.080+02	3.503+03	6.124-09	1.378-04	115	118	9.839+03	2.418-02	2.106-10	5.973-00
111	146	9.566+01	4.278+05	5.868-07	9.178-03	115	124	2.871+03	1.475-00	2.551-09	1.797-00
111	147	9.563+01	3.176+05	7.259-07	1.134-02	115	125	2.858+03	4.263-01	9.393-10	6.528-01
111	148	9.559+01	2.514+05	8.035-07	1.254-02	115	126	2.837+03	1.069+01	2.323-08	1.580+01
111	149	9.496+01	3.304+03	7.444-09	1.139-04	115	128	9.947+02	1.700+01	5.042-10	1.478-02
111	154	9.263+01	2.934+03	8.805-09	1.251-04	115	129	9.827+02	1.027+01	8.922-10	2.521-02
112	113	1.003+04	8.447-02	2.547-10	7.646-00	115	130	9.150+02	2.319-01	2.911-11	6.642-04
112	114	1.751+03	5.562-00	1.533-09	2.450-01	115	131	8.755+02	4.353-01	3.001-11	5.997-04
112	119	1.353+03	1.614+01	8.863-10	6.540-02	115	136	3.355+02	1.518-00	2.562-11	2.882-05
112	120	1.068+03	5.768+02	1.381-07	5.013-00	115	137	3.353+02	9.668+01	2.281-09	2.561-03
112	121	1.063+03	5.100+02	1.210-07	4.334-00	115	138	3.348+02	2.636+01	7.975-10	8.912-04
112	122	1.062+03	3.340+03	1.017-06	3.631+01	115	139	3.336+02	7.284+01	1.701-09	1.880-03
112	123	1.059+03	2.253+02	3.785-08	1.337-00	115	142	1.092+02	3.159+04	1.130-08	4.386-04
112	132	3.357+02	7.279+01	7.378-10	8.311-04	115	143	1.092+02	1.918+04	2.055-08	7.961-04
112	133	3.351+02	2.431+02	4.093-09	4.586-03	115	144	1.087+02	7.397+01	1.310-10	5.013-06
112	134	3.340+02	3.616+02	8.468-09	9.397-03	115	145	1.084+02	3.192+03	3.376-09	1.281-04
112	135	3.189+02	6.732-00	1.027-10	9.919-05	115	150	9.878+01	2.999+02	4.387-10	1.259-05
112	140	1.082+02	1.824+04	1.921-08	7.253-04	115	151	9.877+01	2.492+02	5.103-10	1.464-05
112	141	1.072+02	1.373+03	4.729-10	1.735-05	115	152	9.875+01	7.196+02	1.894-09	5.431-05
112	146	9.585+01	4.396+03	3.632-09	9.525-05	115	153	9.867+01	8.206+02	1.677-09	4.797-05
112	147	9.582+01	4.173+03	5.744-09	1.505-04	116	117	7.192+04	3.711-07	4.029-13	4.463-00
112	148	9.578+01	3.146+02	6.056-10	1.585-05	116	118	1.075+04	1.035-02	1.077-10	3.984-00
112	149	9.515+01	3.441+03	4.671-09	1.198-04	116	124	2.944+03	8.635-01	1.570-09	1.193-00
112	154	9.281+01	3.174+03	5.738-09	1.366-04	116	125	2.930+03	8.992-00	2.083-08	1.560+01
112	155	9.281+01	4.324+02	1.005-09	2.393-05	116	126	2.908+03	8.331-01	1.902-09	1.393-00
112	157	9.279+01	2.350+04	5.459-08	1.299-03	116	128	1.003+03	1.259+01	3.799-10	1.143-02
113	123	1.184+03	8.566+02	8.996-07	8.885-00	116	129	9.911+02	3.178-00	2.808-10	8.141-03
113	133	3.467+02	3.502+02	3.155-08	7.830-03	116	130	9.223+02	2.017-00	2.572-10	6.010-03
113	135	3.294+02	1.410+03	1.146-07	2.441-02	116	131	8.821+02	1.503-02	1.052-12	2.151-05
113	147	9.675+01	5.588+03	3.921-08	2.115-04	116	136	3.365+02	3.620-00	6.145-11	6.974-05
113	149	9.606+01	1.278+05	8.844-07	4.669-03	116	137	3.363+02	1.486+02	3.527-09	3.994-03
114	120	2.740+03	3.707-03	9.735-12	3.578-03	116	138	3.358+02	1.464+03	4.455-08	5.022-02
114	121	2.709+03	6.188-01	1.588-09	5.639-01	116	139	3.345+02	3.690+01	8.667-10	9.663-04
114	123	2.678+03	2.515-01	4.507-10	1.547-01	116	142	1.093+02	6.303+04	2.259-08	8.792-04
114	132	4.153+02	4.744+04	1.227-06	1.570-00	116	143	1.093+02	1.708+04	1.834-08	7.123-04
114	133	4.144+02	4.721+04	2.026-06	2.577-00	116	144	1.088+02	9.578+03	1.700-08	6.522-04
114	134	4.128+02	4.748+04	2.830-06	3.556-00	116	145	1.085+02	2.689+03	2.849-09	1.084-04
114	135	3.900+02	2.349+02	8.928-09	9.462-03	116	150	9.886+01	2.726+03	3.994-09	1.149-04
114	140	1.154+02	8.783-01	1.752-12	4.806-08	116	151	9.885+01	7.002+03	1.436-08	4.131-04
114	146	1.014+02	1.950+07	3.006-05	5.601-01	116	152	9.883+01	1.398+04	3.686-08	1.060-03

Table 4. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric quadrupole (E2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
116	153	9.875+01	1.273+03	2.606-09	7.474-05	120	146	1.053+02	2.847+04	2.028-08	9.872-04
117	118	1.264+04	1.056-03	1.084-11	9.130-01	120	147	1.053+02	1.485+03	1.762-09	8.569-05
117	124	3.069+03	1.217-01	1.719-10	2.072-01	120	148	1.052+02	2.852+02	4.733-10	2.298-05
117	125	3.054+03	9.175-01	1.650-09	1.960-00	120	149	1.044+02	3.700+02	4.323-10	2.054-05
117	126	3.031+03	5.312-01	9.406-10	1.092-00	120	154	1.016+02	8.515+02	1.319-09	5.774-05
117	127	3.013+03	9.126-00	1.952-08	2.225+01	120	155	1.016+02	1.464+02	2.915-10	1.276-05
117	129	1.005+03	3.998-00	2.594-10	1.098-02	120	156	1.016+02	1.608+03	3.912-09	1.712-04
117	130	9.343+02	2.072-00	1.937-10	6.588-03	120	157	1.016+02	2.002-00	3.985-12	1.744-07
117	131	8.931+02	1.208+01	6.192-10	1.839-02	121	122	1.060+06	2.684-13	5.808-17	2.881-00
117	136	3.381+02	1.824-01	2.233-12	3.598-06	121	123	2.394+05	7.947-10	4.877-15	2.789-00
117	137	3.378+02	8.323-00	1.424-10	2.290-04	121	132	4.905+02	2.119+01	3.276-10	1.612-03
117	138	3.373+02	8.508+01	1.866-09	2.987-03	121	133	4.893+02	9.985-00	2.560-10	1.250-03
117	139	3.361+02	2.667-01	4.517-12	7.149-06	121	134	4.870+02	4.038+01	1.436-09	6.913-03
117	143	1.094+02	9.504+03	7.311-09	3.994-04	121	135	4.556+02	2.208+01	4.907-10	1.935-03
117	144	1.090+02	3.034+03	3.859-09	2.082-04	121	140	1.205+02	2.496-02	2.328-14	1.698-09
117	145	1.087+02	1.993+04	1.513-08	8.097-04	121	146	1.053+02	6.583-00	4.694-12	2.288-07
117	150	9.900+01	1.774+02	1.862-10	7.533-06	121	147	1.053+02	4.552+03	5.407-09	2.633-04
117	151	9.899+01	3.195+02	4.694-10	1.898-05	121	148	1.053+02	1.654+04	2.747-08	1.336-03
117	152	9.897+01	9.914+01	1.872-10	7.566-06	121	149	1.045+02	1.394+02	1.630-10	7.755-06
117	153	9.889+01	1.015+03	1.488-09	6.001-05	121	154	1.017+02	1.492+03	2.313-09	1.014-04
118	124	4.054+03	1.538-00	8.842-09	1.052+01	121	155	1.017+02	1.408+04	2.807-08	1.231-03
118	129	1.092+03	1.828-02	3.266-12	7.594-05	121	156	1.017+02	1.416+05	3.448-07	1.511-02
118	130	1.009+03	2.976-01	7.568-11	1.389-03	121	157	1.017+02	7.620+03	1.518-08	6.650-04
118	131	9.610+02	1.953-00	2.704-10	4.288-03	122	123	3.092+05	2.084-11	1.660-16	2.631-01
118	136	3.474+02	1.528+01	4.607-10	3.451-04	122	133	4.895+02	6.523+01	1.302-09	8.186-03
118	137	3.471+02	6.472+02	2.728-08	2.039-02	122	134	4.872+02	2.284+01	6.321-10	3.919-03
118	139	3.453+02	6.259+02	2.610-08	1.920-02	122	135	4.558+02	3.901+01	6.750-10	3.426-03
118	143	1.104+02	9.823+01	1.794-10	4.311-06	122	147	1.053+02	1.288+04	1.190-08	7.456-04
118	144	1.099+02	4.997+03	1.508-08	3.580-04	122	148	1.053+02	8.194+01	1.059-10	6.621-06
118	145	1.096+02	3.408+04	6.140-08	1.446-03	122	149	1.045+02	1.259+04	1.145-08	7.008-04
118	150	9.978+01	8.480+03	2.109-08	3.744-04	122	154	1.017+02	7.393+01	8.916-11	5.026-06
118	151	9.977+01	1.053+04	3.667-08	6.507-04	122	155	1.017+02	1.768+01	2.741-11	1.546-06
118	153	9.967+01	2.092+04	7.270-08	1.286-03	122	156	1.017+02	2.356-01	4.462-13	2.515-08
119	123	4.864+03	4.320-03	7.661-11	5.251-02	122	157	1.017+02	6.219+02	9.639-10	5.431-05
119	133	4.454+02	1.181+02	1.756-08	9.241-03	123	132	4.915+02	4.365+01	9.487-10	3.355-03
119	135	4.173+02	4.776+04	6.234-06	2.698-00	123	133	4.903+02	4.013+01	1.446-09	5.076-03
119	147	1.031+02	7.153+04	5.702-07	3.725-03	123	134	4.880+02	6.310-00	3.153-10	1.091-03
119	149	1.023+02	2.050+07	1.610-04	1.028-00	123	135	4.565+02	5.006-02	1.564-12	4.429-06
120	121	2.376+05	9.139-11	7.735-16	4.326-01	123	140	1.206+02	1.390-01	1.817-13	9.478-09
120	122	1.941+05	1.504-09	1.092-14	3.328-00	123	141	1.193+02	1.680+04	7.168-09	3.622-04
120	123	1.192+05	2.983-08	4.542-14	3.211-00	123	146	1.054+02	7.667+02	7.661-10	2.670-05
120	132	4.895+02	9.378+01	1.444-09	7.062-03	123	147	1.054+02	5.046+03	8.397-09	2.925-04
120	133	4.883+02	1.939-01	4.950-12	2.402-05	123	148	1.053+02	2.789+03	6.490-09	2.257-04
120	134	4.860+02	9.992-01	3.538-11	1.693-04	123	149	1.046+02	3.282+03	5.378-09	1.830-04
120	135	4.547+02	2.318+01	5.133-10	2.012-03	123	154	1.017+02	1.030+04	2.237-08	7.012-04
120	140	1.204+02	1.318-01	1.228-13	8.944-09	123	155	1.017+02	7.930+04	2.214-07	6.943-03

Table 4. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric quadrupole (E2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
123	157	1.017+02	9.044-02	2.524-13	7.910-09	127	153	1.022+02	3.260+03	3.251-09	2.277-04
124	125	6.221+05	2.222-12	1.658-16	1.664-00	128	130	1.142+04	1.358-03	1.328-10	1.179-00
124	126	2.426+05	1.369-10	1.553-15	9.250-01	128	136	5.063+02	6.603+03	1.269-06	9.809-01
124	127	1.639+05	6.846-11	4.335-16	7.963-02	128	144	1.220+02	2.955+06	3.299-05	3.572-01
124	129	1.494+03	9.796-01	1.405-10	1.955-02	128	150	1.097+02	1.859+07	1.676-04	1.317-00
124	130	1.343+03	1.817-01	3.511-11	3.547-03	129	130	1.329+04	1.245-03	5.497-11	2.306-00
124	131	1.260+03	9.088-01	9.265-11	7.720-03	129	131	8.023+03	1.025-02	9.891-11	9.126-01
124	136	3.799+02	1.015+01	1.568-10	3.586-04	129	136	5.095+02	5.557+03	3.604-07	8.517-01
124	137	3.796+02	9.219+01	1.992-09	4.544-03	129	137	5.089+02	9.146+03	8.287-07	1.952-00
124	138	3.790+02	1.201+01	3.326-10	7.549-04	129	139	5.050+02	6.397+02	5.706-08	1.313-01
124	139	3.774+02	3.494+01	7.462-10	1.673-03	129	143	1.228+02	1.338+06	3.025-06	1.001-01
124	143	1.135+02	9.074+02	7.506-10	4.572-05	129	144	1.222+02	5.762+06	2.151-05	7.018-01
124	144	1.130+02	1.168+02	1.597-10	9.603-06	129	145	1.219+02	3.848+06	8.567-06	2.770-01
124	145	1.127+02	4.904+02	4.000-10	2.386-05	129	150	1.098+02	1.610+07	4.850-05	1.148-00
124	150	1.023+02	1.982+03	2.221-09	9.914-05	129	151	1.098+02	2.622+07	1.106-04	2.616-00
124	151	1.023+02	1.204+04	1.889-08	8.427-04	129	153	1.097+02	2.072+06	8.720-06	2.056-01
124	152	1.023+02	2.223+03	4.482-09	1.999-04	130	131	2.024+04	3.886-05	1.432-12	3.537-01
124	153	1.022+02	1.152+04	1.803-08	8.017-04	130	136	5.298+02	7.533+02	3.170-08	1.404-01
125	126	3.978+05	1.225-12	2.907-17	9.809-02	130	137	5.292+02	3.644+03	2.142-07	9.454-01
125	127	2.226+05	3.183-10	2.890-15	1.709-00	130	138	5.280+02	1.146+04	8.622-07	3.779-00
125	130	1.346+03	1.620-00	2.444-10	3.196-02	130	139	5.249+02	1.442+02	8.341-09	3.593-02
125	136	3.802+02	1.277-00	1.537-11	4.527-05	130	142	1.240+02	1.473+07	6.794-06	3.861-01
125	137	3.799+02	2.781-00	4.680-11	1.375-04	130	143	1.239+02	9.583+06	1.324-05	7.507-01
125	138	3.792+02	1.297+02	2.797-09	8.177-03	130	144	1.234+02	5.132+06	1.171-05	6.546-01
125	139	3.776+02	3.226+01	5.366-10	1.549-03	130	145	1.230+02	1.447+06	1.969-06	1.091-01
125	144	1.130+02	1.008+03	1.072-09	8.294-05	130	150	1.107+02	2.609+06	4.796-06	1.939-01
125	150	1.023+02	4.248+02	3.704-10	2.126-05	130	151	1.107+02	1.266+07	3.258-05	1.317-00
125	151	1.023+02	4.694+03	5.729-09	3.288-04	130	152	1.107+02	3.916+07	1.295-04	5.231-00
125	152	1.023+02	2.423+04	3.801-08	2.180-03	130	153	1.106+02	3.880+05	9.961-07	4.013-02
125	153	1.022+02	5.179-00	6.308-12	3.609-07	131	136	5.440+02	6.101+02	4.512-08	1.298-01
126	127	5.054+05	2.935-12	1.374-16	9.511-01	131	137	5.434+02	1.325+02	1.369-08	3.926-02
126	130	1.351+03	1.286-02	1.954-12	2.580-04	131	139	5.389+02	9.816+03	9.972-07	2.789-00
126	136	3.805+02	6.572-01	7.926-12	2.341-05	131	143	1.247+02	3.835+06	8.940-06	3.098-01
126	137	3.802+02	2.404+01	4.053-10	1.194-03	131	144	1.241+02	8.674+05	3.339-06	1.141-01
126	138	3.796+02	7.089-00	1.531-10	4.490-04	131	145	1.237+02	9.602+06	2.204-05	7.463-01
126	139	3.780+02	1.220+01	2.033-10	5.886-04	131	150	1.113+02	2.387+06	7.392-06	1.823-01
126	144	1.130+02	8.223-00	8.751-12	6.775-07	131	151	1.113+02	6.632+05	2.875-06	7.089-02
126	150	1.023+02	4.125+03	3.599-09	2.068-04	131	153	1.112+02	3.672+07	1.589-04	3.903-00
126	151	1.023+02	2.546+02	3.109-10	1.786-05	132	133	1.937+05	1.068-09	1.001-14	1.301-00
126	152	1.023+02	1.925+02	3.021-10	1.734-05	132	134	6.718+04	1.744-08	2.754-14	1.492-01
126	153	1.022+02	1.788+02	2.179-10	1.247-05	132	135	6.396+03	8.593-05	8.785-13	4.108-03
127	137	3.805+02	1.021-01	1.410-12	5.090-06	132	140	1.597+02	1.895+06	7.247-06	5.276-01
127	138	3.799+02	3.746+01	6.630-10	2.381-03	132	146	1.341+02	2.439+06	6.582-06	2.839-01
127	139	3.783+02	3.357-04	4.584-15	1.626-08	132	147	1.341+02	2.428+06	1.091-05	4.702-01
127	151	1.023+02	1.520+03	1.519-09	1.067-04	132	148	1.340+02	1.993+05	1.252-06	5.386-02
127	152	1.023+02	2.193-02	2.817-14	1.978-09	132	149	1.328+02	8.419+03	3.709-08	1.552-03

Table 4. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric quadrupole (E2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
132	154	1.283+02	2.540+07	1.462-04	5.514-00	137	145	1.602+02	1.966+04	3.243-08	5.561-03
133	134	1.028+05	2.072-08	4.600-14	1.490-00	137	150	1.400+02	1.061+06	2.228-06	2.551-01
133	135	6.615+03	4.984-05	3.269-13	2.818-03	137	151	1.400+02	2.109+06	6.197-06	7.092-01
133	140	1.599+02	3.145+06	7.229-06	8.794-01	137	152	1.400+02	6.140+05	2.319-06	2.652-01
133	141	1.576+02	3.087+04	2.300-08	2.682-03	137	153	1.398+02	1.343+04	3.936-08	4.485-03
133	146	1.342+02	4.046+06	6.559-06	4.726-01	138	139	9.134+04	5.753-10	5.598-16	2.287-02
133	147	1.342+02	1.750+06	4.726-06	3.402-01	138	144	1.610+02	1.189+06	2.565-06	5.736-01
133	148	1.341+02	1.981+06	7.476-06	5.370-01	138	150	1.401+02	5.233+04	8.557-08	1.262-02
133	149	1.329+02	5.156+03	1.365-08	9.536-04	138	151	1.401+02	7.934+05	1.816-06	2.677-01
133	154	1.284+02	7.016+06	2.426-05	1.528-00	138	152	1.401+02	2.998+06	8.817-06	1.299-00
133	155	1.284+02	1.829+07	8.133-05	5.123-00	138	153	1.399+02	2.435+04	5.557-08	8.156-03
133	157	1.283+02	9.103+06	4.045-05	2.546-00	139	143	1.622+02	7.148+04	1.209-07	2.153-02
134	135	7.069+03	5.772-05	3.089-13	4.550-03	139	144	1.613+02	1.112+04	3.097-08	5.414-03
134	140	1.601+02	4.405+06	7.255-06	1.241-00	139	145	1.606+02	1.477+06	2.448-06	4.230-01
134	146	1.344+02	4.633+05	5.379-07	5.447-02	139	150	1.403+02	3.968+04	8.368-08	9.642-03
134	147	1.344+02	2.768+06	5.352-06	5.414-01	139	151	1.403+02	3.186+03	9.405-09	1.083-03
134	148	1.343+02	4.759+06	1.286-05	1.299-00	139	152	1.403+02	2.298+04	8.717-08	1.003-02
134	149	1.331+02	9.639+03	1.827-08	1.794-03	139	153	1.401+02	3.632+06	1.069-05	1.226-00
134	154	1.285+02	4.669+05	1.156-06	1.023-01	140	146	8.381+02	1.030+04	1.085-06	1.141+01
134	155	1.285+02	3.322+06	1.058-05	9.363-01	140	147	8.362+02	1.039+04	1.815-06	1.897+01
134	156	1.285+02	3.272+07	1.273-04	1.126+01	140	148	8.327+02	1.066+04	2.585-06	2.667+01
134	157	1.285+02	2.128+06	6.773-06	5.990-01	140	149	7.875+02	4.962+01	7.689-09	6.711-02
135	140	1.638+02	9.204+03	2.221-08	2.908-03	140	154	6.516+02	1.821-04	2.705-14	1.337-07
135	141	1.615+02	9.771+06	7.638-06	9.576-01	141	147	9.031+02	2.408+01	1.472-08	6.458-02
135	146	1.370+02	1.211+04	2.045-08	1.567-03	141	149	8.465+02	9.643+03	5.180-06	1.872+01
135	147	1.370+02	7.397+03	2.081-08	1.593-03	142	144	2.272+04	2.935-04	1.136-10	7.941-00
135	148	1.369+02	5.955+03	2.342-08	1.789-03	142	150	1.032+03	1.800+03	1.438-06	9.420-00
135	149	1.356+02	7.169+06	1.976-05	1.468-00	143	144	2.648+04	2.671-04	4.679-11	1.552+01
135	154	1.309+02	2.008+04	7.223-08	4.825-03	143	145	1.609+04	2.113-03	8.205-11	6.110-00
135	155	1.309+02	1.053+07	4.870-05	3.253-00	143	150	1.039+03	1.513+03	4.082-07	8.181-00
135	157	1.309+02	2.032+07	9.391-05	6.268-00	143	151	1.038+03	2.472+03	9.320-07	1.863+01
136	137	4.763+05	3.840-12	1.829-16	5.886-01	143	153	1.027+03	2.013+02	7.430-08	1.438-00
136	138	1.525+05	4.379-11	2.749-16	2.906-02	144	145	4.103+04	7.656-06	1.159-12	2.384-00
136	139	5.713+04	5.801-09	3.974-15	2.207-02	144	150	1.081+03	2.042+02	3.580-08	1.349-00
136	142	1.619+02	1.546+06	1.216-06	1.538-01	144	151	1.080+03	9.951+02	2.438-07	9.161-00
136	143	1.618+02	4.474+05	1.053-06	1.328-01	144	152	1.078+03	3.112+03	9.762-07	3.645+01
136	144	1.608+02	4.411+04	1.710-07	2.118-02	144	153	1.068+03	3.233+01	7.748-09	2.815-01
136	145	1.602+02	6.787+04	1.566-07	1.917-02	145	150	1.111+03	1.652+02	5.093-08	1.247-00
136	150	1.400+02	2.519+06	7.400-06	6.046-01	145	151	1.110+03	4.712+01	2.030-08	4.957-01
136	151	1.400+02	7.639+05	3.141-06	2.565-01	145	153	1.097+03	2.666+03	1.122-06	2.648+01
136	152	1.399+02	2.911+04	1.538-07	1.255-02	146	147	3.732+05	3.005-10	1.045-14	9.708-00
136	153	1.398+02	2.342+04	9.603-08	7.808-03	146	148	1.293+05	4.944-09	2.890-14	1.115-00
137	138	2.244+05	1.344-10	1.304-15	6.142-01	146	149	1.305+04	2.032-05	8.649-13	3.435-02
137	139	6.492+04	8.732-10	5.517-16	6.293-03	146	154	2.928+03	8.136-00	2.440-08	1.094+01
137	143	1.618+02	1.029+06	1.732-06	3.061-01	147	148	1.978+05	5.876-09	4.824-14	1.111+01
137	144	1.609+02	2.974+05	8.240-07	1.430-01	147	149	1.352+04	1.121-05	3.072-13	2.263-02

Table 4. Transition energies ($\AA$), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for electric quadrupole (E2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
147	154	2.951+03	2.165-00	3.957-09	3.029-00	150	152	3.668+05	5.316-12	1.931-16	2.838-01
147	155	2.952+03	5.663-00	1.332-08	1.021+01	150	153	8.946+04	4.956-09	8.324-15	1.775-01
147	157	2.933+03	2.865-00	6.652-09	4.999-00	151	152	5.130+05	2.112-11	1.071-15	6.029-00
148	149	1.452+04	1.369-05	3.088-13	3.937-02	151	153	9.614+04	9.614-10	1.332-15	4.934-02
148	154	2.996+03	1.342-01	1.806-10	2.025-01	152	153	1.183+05	1.278-09	2.086-15	1.851-01
148	155	2.997+03	9.528-01	1.650-09	1.852-00	155	154	5.885+06	3.610-17	1.458-19	1.593-00
148	156	2.981+03	9.646-00	2.019-08	2.229+01	154	156	5.958+05	9.536-14	7.975-18	7.033-02
148	157	2.977+03	6.309-01	1.078-09	1.186-00	154	157	4.817+05	4.893-12	2.188-16	1.019-00
149	154	3.775+03	2.188-03	6.543-12	1.048-02	155	156	5.410+05	3.563-12	1.911-16	1.622-00
149	155	3.777+03	9.786-01	3.768-09	6.047-00	155	157	4.452+05	7.230-13	2.149-17	1.017-01
149	157	3.746+03	2.001-00	7.574-09	1.185+01	156	157	2.514+06	1.287-15	9.976-19	1.039-00
150	151	1.288+06	2.613-13	9.096-17	5.785-00						

Table 5. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic quadrupole (M2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
1	2	1.714+01	2.222+05	4.891-08	1.102-01	2	56	4.393+01	9.094+02	5.262-11	9.977-03
1	18	1.545+01	6.118+06	1.095-06	1.806-00	2	60	4.280+01	9.371-01	1.544-13	2.708-05
1	21	1.540+01	1.119+06	1.989-07	3.249-01	2	61	4.280+01	1.892-02	9.355-15	1.640-06
1	24	1.519+01	4.453+05	7.706-08	1.209-01	2	63	4.278+01	1.392+01	3.819-12	6.688-04
1	25	1.518+01	2.667+05	4.605-08	7.204-02	2	64	4.273+01	1.025+01	3.928-12	6.854-04
1	32	1.384+01	8.481+05	1.218-07	1.445-01	2	65	4.272+01	2.240-00	6.128-13	1.069-04
1	38	1.272+01	1.146+05	1.388-08	1.277-02	2	66	4.272+01	3.103-00	1.188-12	2.072-04
1	54	1.233+01	3.007+06	3.428-07	2.875-01	2	67	4.270+01	6.187-00	3.044-12	5.303-04
1	57	1.232+01	8.542+05	9.722-08	8.137-02	2	72	4.098+01	8.992-02	3.169-14	4.878-06
1	68	1.218+01	1.290+05	1.434-08	1.159-02	2	73	4.096+01	2.131-00	9.649-13	1.483-04
1	69	1.218+01	4.470+05	4.967-08	4.010-02	2	74	4.095+01	2.779+01	9.781-12	1.502-03
1	76	1.145+01	1.036+05	1.018-08	6.831-03	2	75	4.094+01	4.783-01	1.202-13	1.846-05
1	89	1.129+01	1.732+06	1.655-07	1.066-01	2	78	3.389+01	3.677+03	3.798-10	3.306-02
1	91	1.129+01	5.734+05	5.477-08	3.524-02	2	79	3.384+01	1.903+01	3.267-12	2.832-04
1	102	1.125+01	3.971-00	3.766-13	2.398-07	2	80	3.381+01	5.314+03	1.275-09	1.102-01
1	115	1.116+01	5.362+04	5.008-09	3.116-03	2	81	3.379+01	8.310+03	8.536-10	7.367-02
1	116	1.116+01	3.642+05	3.401-08	2.115-02	2	82	3.376+01	8.834+03	1.510-09	1.300-01
1	130	1.103+01	6.443+05	5.874-08	3.524-02	2	83	3.356+01	1.334+04	4.506-10	3.809-02
1	136	1.080+01	2.524-01	2.208-14	1.245-08	2	94	3.277+01	6.766-02	6.537-15	5.147-07
1	144	1.012+01	5.289+05	4.063-08	1.885-02	2	95	3.276+01	1.032+01	1.661-12	1.307-04
1	150	1.003+01	1.968-00	1.484-13	6.696-08	2	97	3.276+01	2.977-02	8.623-15	6.782-07
2	6	4.096+02	9.328-01	1.408-11	2.165-00	2	98	3.274+01	1.252+01	2.817-12	2.212-04
2	7	3.655+02	4.951-03	9.918-14	1.084-02	2	99	3.274+01	3.466-00	5.568-13	4.370-05
2	8	3.492+02	2.488-00	6.366-11	6.062-00	2	100	3.274+01	1.514-00	3.406-13	2.673-05
2	9	3.378+02	4.167-00	4.277-11	3.688-00	2	101	3.273+01	4.972-00	1.438-12	1.128-04
2	10	3.222+02	5.946-00	9.254-11	6.924-00	2	110	3.272+01	1.685-00	1.623-13	1.272-05
2	11	2.813+02	9.898-00	2.349-11	1.170-00	2	111	3.268+01	1.650-03	1.586-16	1.238-08
2	12	2.695+02	4.110-01	2.684-12	1.175-01	2	112	3.266+01	2.133-00	3.410-13	2.657-05
2	13	2.519+02	5.219-01	2.979-12	1.065-01	2	113	3.255+01	3.476+02	1.105-11	8.524-04
2	14	2.499+02	1.615-03	1.512-14	5.277-04	2	114	3.206+01	5.775+01	5.340-12	3.936-04
2	15	1.910+02	5.882+01	6.433-11	1.003-00	2	119	3.189+01	1.137+02	3.466-12	2.514-04
2	28	9.075+01	5.455+02	4.041-10	6.755-01	2	120	3.169+01	3.415-03	7.198-16	5.124-08
2	29	8.656+01	1.163+03	2.612-10	3.789-01	2	121	3.169+01	2.491+01	5.249-12	3.735-04
2	34	5.786+01	3.964-00	1.194-12	5.172-04	2	122	3.168+01	1.615-00	4.376-13	3.114-05
2	35	5.782+01	1.074+01	5.382-12	2.327-03	2	123	3.168+01	1.916-01	2.884-14	2.051-06
2	36	5.775+01	1.454+01	1.018-11	4.386-03	2	132	2.976+01	2.952-00	2.352-13	1.387-05
2	37	5.641+01	1.081-01	5.159-14	2.071-05	2	133	2.976+01	1.919+01	2.548-12	1.502-04
2	40	4.693+01	3.471+03	6.877-10	1.590-01	2	134	2.975+01	6.209+01	1.154-11	6.793-04
2	43	4.677+01	8.701-00	2.854-12	6.532-04	2	135	2.963+01	6.289-00	8.275-13	4.813-05
2	44	4.666+01	4.925+03	2.250-09	5.111-01	2	140	2.509+01	2.104-00	1.191-13	4.208-06
2	45	4.658+01	7.926+03	1.547-09	3.498-01	2	141	2.503+01	1.895-01	3.561-15	1.249-07
2	46	4.648+01	8.231+03	2.666-09	5.989-01	2	146	2.436+01	9.243-01	4.933-14	1.595-06
2	47	4.581+01	9.889+03	6.222-10	1.338-01	2	147	2.436+01	1.143+01	1.017-12	3.287-05
2	48	4.468+01	8.456-00	1.519-12	3.030-04	2	148	2.435+01	4.929+01	6.136-12	1.983-04
2	49	4.449+01	2.862-00	5.096-13	1.004-04	2	149	2.431+01	6.490-00	5.752-13	1.849-05
2	50	4.446+01	1.738-01	5.149-14	1.012-05	2	154	2.416+01	1.513-06	1.853-19	5.844-12

Table 5. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic quadrupole (M2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
2	155	2.416+01	1.700-05	2.678-18	8.444-11	3	121	3.184+01	6.736-00	2.390-12	1.036-04
2	157	2.416+01	3.467-06	5.460-19	1.722-11	3	123	3.184+01	6.979-00	1.768-12	7.659-05
3	6	4.379+02	2.759-02	7.934-13	8.943-02	3	132	2.990+01	8.403-00	1.127-12	4.043-05
3	7	3.879+02	3.607-06	1.356-16	1.062-05	3	133	2.990+01	2.814-00	6.286-13	2.255-05
3	8	3.695+02	2.667-00	1.274-10	8.625-00	3	134	2.989+01	1.543-00	4.823-13	1.728-05
3	9	3.568+02	3.295-01	6.290-12	3.835-01	3	135	2.976+01	2.670-00	5.911-13	2.092-05
3	10	3.394+02	1.991-00	5.733-11	3.009-00	3	140	2.519+01	2.379-00	2.263-13	4.853-06
3	12	2.814+02	3.895-02	4.624-13	1.383-02	3	146	2.445+01	4.603-00	4.126-13	8.097-06
3	13	2.623+02	9.495-01	9.794-12	2.372-01	3	147	2.445+01	1.528-00	2.283-13	4.480-06
3	14	2.601+02	2.033-01	3.438-12	8.125-02	3	148	2.445+01	6.411-00	1.340-12	2.629-05
3	28	9.207+01	6.530+02	8.298-10	8.690-01	3	149	2.441+01	1.758-00	2.617-13	5.106-06
3	34	5.839+01	3.633-00	1.857-12	4.963-04	3	154	2.425+01	3.817-05	7.851-18	1.503-10
3	35	5.836+01	5.996-00	5.102-12	1.361-03	4	7	5.823+02	1.834-03	4.660-13	4.115-02
3	36	5.828+01	1.565+01	1.859-11	4.941-03	4	10	4.795+02	2.124-04	3.662-14	1.806-03
3	37	5.692+01	5.693-00	4.608-12	1.140-03	4	14	3.352+02	2.897-00	2.440-10	4.111-00
3	40	4.728+01	1.941+02	6.504-11	9.226-03	4	35	6.144+01	2.702-00	7.646-12	7.934-04
3	43	4.712+01	1.945-00	1.079-12	1.515-04	4	37	5.985+01	2.441-02	6.554-14	6.286-06
3	44	4.700+01	7.237+03	5.593-09	7.793-01	4	43	4.911+01	4.740-00	8.571-12	4.542-04
3	45	4.693+01	7.582+02	2.503-10	3.472-02	4	46	4.879+01	1.268-01	2.263-13	1.176-05
3	46	4.683+01	3.572+03	1.957-09	2.697-01	4	50	4.656+01	4.805+03	7.810-09	3.528-01
3	48	4.500+01	3.255-00	9.883-13	1.209-04	4	63	4.473+01	3.299-02	4.948-14	1.980-06
3	49	4.481+01	2.923+02	8.797-11	1.062-02	4	65	4.466+01	7.668-00	1.147-11	4.570-04
3	50	4.477+01	1.046+02	5.239-11	6.310-03	4	75	4.273+01	5.085-02	6.958-14	2.428-06
3	60	4.309+01	6.300-00	1.754-12	1.883-04	4	79	3.505+01	3.506-01	3.228-13	6.218-06
3	63	4.307+01	8.488-00	3.934-12	4.218-04	4	82	3.497+01	2.531-02	2.320-14	4.438-07
3	64	4.302+01	1.389+01	8.991-12	9.606-04	4	95	3.389+01	2.081+01	1.792-11	3.122-04
3	65	4.301+01	5.497-00	2.541-12	2.713-04	4	99	3.387+01	1.037+01	8.918-12	1.550-04
3	66	4.301+01	2.208+01	1.429-11	1.525-03	4	112	3.378+01	5.167+03	4.421-09	7.625-02
3	72	4.124+01	3.948-00	2.350-12	2.212-04	4	123	3.274+01	1.127-01	9.056-14	1.421-06
3	74	4.121+01	7.090-00	4.213-12	3.957-04	4	133	3.069+01	2.629-00	1.856-12	2.400-05
3	75	4.121+01	1.103+01	4.681-12	4.397-04	4	135	3.055+01	2.477-00	1.733-12	2.210-05
3	78	3.407+01	2.191+02	3.812-11	2.022-03	4	147	2.498+01	1.513-01	7.073-14	4.930-07
3	79	3.402+01	4.688-00	1.356-12	7.166-05	4	149	2.493+01	3.970-00	1.850-12	1.282-05
3	80	3.399+01	7.900+03	3.193-09	1.683-01	5	6	7.560+02	8.171-03	7.001-13	4.059-01
3	81	3.397+01	7.935+02	1.373-10	7.224-03	5	7	6.183+02	2.046-03	1.954-13	6.197-02
3	82	3.395+01	4.148+03	1.194-09	6.270-02	5	8	5.729+02	4.457-03	5.117-13	1.291-01
3	94	3.294+01	4.764-00	7.751-13	3.719-05	5	9	5.429+02	3.523-03	1.557-13	3.344-02
3	95	3.293+01	5.751-00	1.559-12	7.472-05	5	10	5.037+02	1.936-03	1.227-13	2.104-02
3	98	3.292+01	1.514+01	5.738-12	2.746-04	5	12	3.857+02	2.513-02	5.603-13	4.313-02
3	99	3.291+01	2.484-00	6.721-13	3.214-05	5	13	3.506+02	5.268-00	9.711-11	5.619-00
3	100	3.291+01	1.199+01	4.543-12	2.172-04	5	14	3.468+02	3.625-00	1.090-10	6.101-00
3	110	3.289+01	9.786-00	1.587-12	7.577-05	5	28	1.010+02	2.493+01	3.813-11	5.272-02
3	111	3.285+01	2.305+02	3.730-11	1.775-03	5	34	6.186+01	6.324-00	3.629-12	1.153-03
3	112	3.283+01	9.572+01	2.578-11	1.224-03	5	35	6.182+01	6.717-02	6.414-14	2.034-05
3	114	3.222+01	1.139-00	1.773-13	7.960-06	5	36	6.174+01	6.637-01	8.850-13	2.796-04
3	120	3.185+01	1.958-00	6.949-13	3.013-05	5	37	6.021+01	3.260-00	2.953-12	8.649-04

Table 5. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic quadrupole (M2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
5	40	4.953+01	1.804+02	6.633-11	1.082-02	6	21	2.406+02	2.061-00	2.981-11	5.575-01
5	43	4.936+01	1.303+01	7.933-12	1.280-03	6	22	2.356+02	7.470-01	1.451-11	2.547-01
5	44	4.922+01	1.378+02	1.168-10	1.870-02	6	23	2.160+02	2.822+01	1.974-10	2.672-00
5	45	4.914+01	4.906+01	1.776-11	2.830-03	6	24	1.989+02	3.018-01	2.982-12	3.146-02
5	46	4.903+01	4.366+01	2.623-11	4.149-03	6	25	1.963+02	2.004-00	1.930-11	1.960-01
5	48	4.703+01	4.186-00	1.388-12	1.938-04	6	26	1.946+02	6.189-01	8.197-12	8.104-02
5	49	4.682+01	1.180+04	3.878-09	5.342-01	6	27	1.739+02	2.854+01	1.293-10	9.120-01
5	50	4.678+01	7.169+03	3.921-09	5.388-01	6	31	8.871+01	4.108+02	4.846-10	4.541-01
5	60	4.495+01	5.705-01	1.728-13	2.106-05	6	32	8.727+01	1.953+02	3.716-10	3.314-01
5	63	4.493+01	7.315+01	3.689-11	4.490-03	6	33	8.609+01	8.604+01	9.561-11	8.187-02
5	64	4.487+01	4.202+01	2.960-11	3.589-03	6	38	5.603+01	7.969+02	6.251-10	1.475-01
5	65	4.486+01	3.676+01	1.849-11	2.241-03	6	39	5.587+01	1.887+02	8.830-11	2.066-02
5	66	4.486+01	1.103+01	7.768-12	9.410-04	6	42	5.292+01	4.077+02	1.711-10	3.404-02
5	72	4.295+01	6.516-01	4.204-13	4.469-05	6	52	4.939+01	2.958+03	1.082-09	1.750-01
5	74	4.291+01	1.850-00	1.191-12	1.263-04	6	54	4.925+01	2.511+03	1.522-09	2.440-01
5	75	4.291+01	1.736-00	7.987-13	8.469-05	6	55	4.922+01	3.410+02	2.891-10	4.627-02
5	78	3.522+01	6.359+01	1.183-11	6.934-04	6	57	4.910+01	1.603+03	9.658-10	1.534-01
5	79	3.517+01	4.181-00	1.292-12	7.546-05	6	58	4.903+01	4.944+02	4.157-10	6.574-02
5	80	3.514+01	1.687+02	7.288-11	4.244-03	6	59	4.852+01	1.410+04	4.976-09	7.628-01
5	81	3.512+01	3.488+01	6.448-12	3.748-04	6	68	4.689+01	4.222-00	2.320-12	3.209-04
5	82	3.509+01	6.855+01	2.109-11	1.223-03	6	69	4.685+01	1.033+03	5.663-10	7.813-02
5	94	3.402+01	1.589+01	2.757-12	1.457-04	6	70	4.679+01	1.043+02	7.991-11	1.099-02
5	95	3.401+01	1.049-00	3.030-13	1.600-05	6	71	4.640+01	4.672+02	1.508-10	2.021-02
5	98	3.399+01	3.165+01	1.279-11	6.742-04	6	76	3.764+01	6.881+02	2.436-10	1.743-02
5	99	3.398+01	4.256+01	1.228-11	6.467-04	6	77	3.760+01	1.816+02	3.849-11	2.747-03
5	100	3.398+01	3.498-00	1.413-12	7.440-05	6	85	3.623+01	7.188+02	1.415-10	9.028-03
5	110	3.396+01	1.351+02	2.336-11	1.228-03	6	87	3.604+01	2.411+03	4.694-10	2.949-02
5	111	3.392+01	1.255+04	2.165-09	1.134-01	6	89	3.600+01	2.293+03	7.427-10	4.651-02
5	112	3.390+01	7.905+03	2.269-09	1.186-01	6	90	3.600+01	3.678+02	1.667-10	1.044-02
5	114	3.325+01	2.790+02	4.625-11	2.282-03	6	91	3.597+01	1.772+03	5.729-10	3.578-02
5	120	3.285+01	2.618-01	9.884-14	4.704-06	6	92	3.595+01	5.107+02	2.309-10	1.440-02
5	121	3.285+01	1.010-00	3.812-13	1.813-05	6	93	3.579+01	1.691+04	3.247-09	1.998-01
5	123	3.285+01	7.046-01	1.899-13	9.033-06	6	102	3.558+01	1.561-01	4.938-14	2.984-06
5	132	3.079+01	7.124-00	1.012-12	3.966-05	6	103	3.557+01	8.621-02	3.816-14	2.305-06
5	133	3.078+01	1.124+01	2.661-12	1.042-04	6	106	3.556+01	5.548-04	2.453-16	1.480-08
5	134	3.077+01	8.281-00	2.744-12	1.073-04	6	115	3.473+01	2.384-02	7.182-15	4.037-07
5	135	3.064+01	2.744+01	6.437-12	2.485-04	6	116	3.472+01	1.084+03	3.266-10	1.834-02
5	140	2.581+01	1.152-01	1.151-14	2.655-07	6	117	3.470+01	9.310+01	3.921-11	2.199-03
5	146	2.504+01	2.102-00	1.976-13	4.164-06	6	118	3.460+01	1.840+02	3.303-11	1.837-03
5	147	2.504+01	1.531+01	2.399-12	5.055-05	6	124	3.431+01	1.772-02	7.298-15	3.957-07
5	148	2.504+01	7.774-00	1.705-12	3.590-05	6	129	3.354+01	1.048-00	1.767-13	8.950-06
5	149	2.499+01	3.033+01	4.735-12	9.920-05	6	130	3.346+01	8.308-01	2.324-13	1.168-05
5	154	2.483+01	3.366-05	7.258-18	1.491-10	6	131	3.340+01	9.442-00	1.579-12	7.898-05
6	17	2.640+02	3.583-00	3.744-11	9.244-01	6	136	3.147+01	3.283-00	8.123-13	3.397-05
6	18	2.539+02	3.467-00	5.586-11	1.227-00	6	137	3.147+01	1.387-00	4.805-13	2.009-05
6	20	2.492+02	3.777-01	8.204-12	1.704-01	6	139	3.145+01	7.829-01	2.709-13	1.131-05

Table 5. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic quadrupole (M2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
6	143	2.634+01	7.193-01	7.484-14	1.837-06	7	90	3.638+01	5.178+02	1.439-10	1.550-02
6	144	2.632+01	1.315-00	2.276-13	5.569-06	7	91	3.635+01	3.008-00	5.959-13	6.404-05
6	145	2.630+01	9.176-00	9.517-13	2.324-05	7	92	3.633+01	3.231+03	8.953-10	9.605-02
6	150	2.569+01	1.606-00	2.649-13	6.030-06	7	93	3.617+01	5.370+01	6.320-12	6.691-04
6	151	2.569+01	6.370-01	1.471-13	3.348-06	7	102	3.595+01	6.946-01	1.346-13	1.399-05
6	153	2.569+01	5.252-01	1.212-13	2.757-06	7	103	3.595+01	2.646-01	7.178-14	7.460-06
7	16	2.928+02	2.633-01	6.771-13	3.803-02	7	106	3.593+01	4.429-01	1.200-13	1.245-05
7	17	2.862+02	8.501-01	6.266-12	3.288-01	7	107	3.593+01	1.146-01	3.993-14	4.143-06
7	18	2.745+02	1.183-00	1.336-11	6.178-01	7	108	3.592+01	3.434-01	1.196-13	1.240-05
7	19	2.738+02	4.859-00	9.833-11	4.517-00	7	115	3.509+01	1.071-00	1.976-13	1.909-05
7	20	2.689+02	4.766-01	7.234-12	3.147-01	7	116	3.508+01	1.127+02	2.079-11	2.007-03
7	21	2.590+02	1.163-02	1.170-13	4.545-03	7	117	3.506+01	1.802+02	4.649-11	4.481-03
7	22	2.532+02	3.541-00	4.764-11	1.730-00	7	118	3.496+01	6.937-01	7.627-14	7.290-06
7	23	2.307+02	2.950-04	1.412-15	3.881-05	7	124	3.466+01	1.870-00	4.717-13	4.394-05
7	24	2.112+02	6.187-04	4.138-15	8.723-05	7	125	3.466+01	4.492-02	1.456-14	1.356-06
7	25	2.084+02	1.066-00	6.940-12	1.404-01	7	126	3.466+01	1.633-01	5.294-14	4.929-06
7	26	2.064+02	2.272-01	2.031-12	3.996-02	7	128	3.389+01	2.800-02	9.644-16	8.396-08
7	27	1.832+02	6.441-02	1.945-13	2.677-03	7	129	3.388+01	2.993-00	3.090-13	2.687-05
7	30	9.140+01	1.279+03	3.203-10	5.470-01	7	130	3.379+01	2.387-00	4.086-13	3.526-05
7	31	9.109+01	5.799+02	4.329-10	7.318-01	7	131	3.373+01	2.535-02	2.595-15	2.228-07
7	32	8.957+01	2.872-00	3.454-12	5.552-03	7	136	3.176+01	2.775+01	4.197-12	3.008-04
7	33	8.833+01	5.886+01	4.131-11	6.368-02	7	137	3.176+01	1.175+02	2.488-11	1.783-03
7	38	5.697+01	4.984-00	2.425-12	1.003-03	7	138	3.176+01	2.663+01	7.247-12	5.191-04
7	39	5.680+01	1.017-02	2.953-15	1.210-06	7	139	3.175+01	2.641-00	5.587-13	3.998-05
7	41	5.383+01	1.103+02	9.585-12	3.345-03	7	142	2.656+01	4.537-01	9.593-15	4.018-07
7	42	5.376+01	5.699+01	1.481-11	5.148-03	7	143	2.655+01	1.259-01	7.987-15	3.344-07
7	51	5.021+01	8.351+02	6.313-11	1.788-02	7	144	2.652+01	1.344-00	1.418-13	5.917-06
7	52	5.012+01	1.110+03	2.509-10	7.065-02	7	145	2.651+01	2.065-00	1.305-13	5.438-06
7	53	5.001+01	6.284+03	4.241-09	1.187-00	7	150	2.589+01	1.701+01	1.709-12	6.634-05
7	54	4.997+01	1.770+03	6.628-10	1.850-01	7	151	2.589+01	8.128+01	1.143-11	4.438-04
7	55	4.995+01	4.871+02	2.551-10	7.109-02	7	152	2.589+01	2.570+01	4.648-12	1.804-04
7	57	4.982+01	8.591-00	3.197-12	8.844-04	7	153	2.588+01	4.245-01	5.968-14	2.314-06
7	58	4.975+01	2.972+03	1.544-09	4.251-01	8	17	2.972+02	5.384-02	3.055-13	2.510-02
7	59	4.922+01	2.751+01	5.995-12	1.599-03	8	18	2.845+02	2.563-00	2.221-11	1.601-00
7	68	4.755+01	2.854-02	9.673-15	2.326-06	8	19	2.838+02	1.482+01	2.301-10	1.647+01
7	69	4.750+01	1.461+02	4.943-11	1.185-02	8	20	2.785+02	3.242-02	3.771-13	2.552-02
7	70	4.744+01	1.683+02	7.953-11	1.900-02	8	21	2.679+02	8.642-01	6.641-12	3.998-01
7	71	4.704+01	4.785-00	9.523-13	2.217-04	8	22	2.617+02	1.384+01	1.421-10	7.973-00
7	76	3.806+01	5.159-00	1.120-12	1.382-04	8	23	2.378+02	2.596-01	9.429-13	3.969-02
7	77	3.802+01	4.139-01	5.382-14	6.619-06	8	24	2.171+02	9.275-02	4.681-13	1.500-02
7	84	3.664+01	4.070+01	1.638-12	1.802-04	8	25	2.141+02	5.087-01	2.497-12	7.671-02
7	85	3.662+01	7.623+01	9.197-12	1.010-03	8	26	2.120+02	1.471-01	9.913-13	2.959-02
7	86	3.645+01	9.833+02	3.917-11	4.243-03	8	27	1.876+02	3.814-02	8.629-14	1.785-03
7	87	3.642+01	1.139+03	1.360-10	1.470-02	8	31	9.217+01	4.387+01	2.394-11	5.871-02
7	88	3.640+01	6.636+03	2.373-09	2.559-01	8	32	9.061+01	3.178+02	2.794-10	6.510-01
7	89	3.639+01	1.857+03	3.686-10	3.973-02	8	33	8.934+01	9.320+02	4.780-10	1.067-00

Table 5. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic quadrupole (M2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
8	38	5.739+01	2.568+03	9.054-10	5.359-01	8	143	2.664+01	1.142+01	5.210-13	3.085-05
8	39	5.722+01	5.825+03	1.225-09	7.188-01	8	144	2.661+01	3.640+01	2.761-12	1.630-04
8	42	5.413+01	1.900-00	3.576-13	1.776-04	8	145	2.660+01	4.076+01	1.852-12	1.092-04
8	52	5.044+01	1.332+02	2.177-11	8.753-03	8	150	2.598+01	1.971-01	1.424-14	7.815-07
8	53	5.033+01	2.266+04	1.107-08	4.419-00	8	151	2.598+01	2.343+01	2.370-12	1.301-04
8	54	5.030+01	3.778+03	1.023-09	4.078-01	8	152	2.597+01	3.791+02	4.931-11	2.705-03
8	55	5.027+01	4.929+01	1.867-11	7.429-03	8	153	2.597+01	2.827+01	2.858-12	1.567-04
8	57	5.014+01	1.126+03	3.032-10	1.197-01	9	17	3.059+02	5.856-01	8.215-12	3.156-01
8	58	5.007+01	1.413+04	5.311-09	2.087-00	9	18	2.925+02	9.334-02	1.995-12	6.699-02
8	59	4.954+01	4.470+02	7.048-11	2.683-02	9	20	2.862+02	1.479-02	4.239-13	1.334-02
8	68	4.784+01	3.238-00	7.936-13	2.721-04	9	21	2.750+02	2.651-01	5.009-12	1.398-01
8	69	4.779+01	1.086+01	2.657-12	9.084-04	9	22	2.685+02	1.133+01	2.857-10	7.418-00
8	70	4.774+01	2.265-00	7.736-13	2.635-04	9	23	2.433+02	3.435-00	3.049-11	5.896-01
8	71	4.733+01	2.371+01	3.412-12	1.132-03	9	24	2.217+02	6.361-02	7.815-13	1.144-02
8	76	3.825+01	2.458+03	3.851-10	6.748-02	9	25	2.186+02	6.670-01	7.963-12	1.116-01
8	77	3.821+01	5.739+03	5.384-10	9.406-02	9	26	2.164+02	1.905-02	3.122-13	4.248-03
8	85	3.679+01	7.091-00	6.168-13	9.622-05	9	27	1.911+02	4.004-00	2.192-11	2.053-01
8	87	3.660+01	1.301+02	1.119-11	1.718-03	9	31	9.299+01	2.283+02	2.960-10	3.195-01
8	88	3.657+01	2.381+04	6.138-09	9.401-01	9	32	9.141+01	1.984+02	4.142-10	4.246-01
8	89	3.656+01	4.123+03	5.901-10	9.029-02	9	33	9.012+01	7.030-00	8.559-12	8.407-03
8	90	3.656+01	4.317+01	8.648-12	1.323-03	9	38	5.771+01	1.499+03	1.247-09	3.216-01
8	91	3.652+01	1.300+03	1.857-10	2.832-02	9	39	5.753+01	3.412+02	1.693-10	4.328-02
8	92	3.650+01	1.474+04	2.945-09	4.485-01	9	42	5.441+01	1.890+01	8.390-12	1.814-03
8	93	3.634+01	6.615+02	5.614-11	8.437-03	9	52	5.069+01	1.261+03	4.859-10	8.495-02
8	102	3.612+01	1.029-01	1.438-14	2.122-06	9	54	5.054+01	2.329+02	1.487-10	2.576-02
8	103	3.612+01	8.578-02	1.677-14	2.474-06	9	55	5.052+01	3.310+01	2.955-11	5.112-03
8	104	3.611+01	4.354-04	1.337-16	1.971-08	9	57	5.039+01	3.585+02	2.274-10	3.904-02
8	106	3.610+01	4.055-01	7.922-14	1.167-05	9	58	5.031+01	1.272+04	1.126-08	1.924-00
8	107	3.610+01	1.035-00	2.600-13	3.829-05	9	59	4.977+01	3.144+03	1.168-09	1.933-01
8	108	3.609+01	7.665-02	1.924-14	2.833-06	9	68	4.806+01	1.395+01	8.051-12	1.199-03
8	109	3.609+01	5.883-01	1.805-13	2.656-05	9	69	4.801+01	1.823+02	1.050-10	1.560-02
8	115	3.524+01	1.276-01	1.697-14	2.327-06	9	70	4.796+01	5.293+01	4.258-11	6.302-03
8	116	3.523+01	3.171-00	4.216-13	5.774-05	9	71	4.754+01	6.383+01	2.163-11	3.119-03
8	117	3.522+01	5.261-01	9.782-14	1.338-05	9	76	3.839+01	1.462+03	5.385-10	4.089-02
8	118	3.512+01	2.900+01	2.298-12	3.116-04	9	77	3.835+01	3.230+02	7.123-11	5.393-03
8	124	3.482+01	2.451-01	4.454-14	5.886-06	9	85	3.692+01	7.996+01	1.635-11	1.104-03
8	125	3.481+01	4.942-00	1.155-12	1.526-04	9	87	3.672+01	1.197+03	2.420-10	1.609-02
8	126	3.481+01	1.082-01	2.528-14	3.340-06	9	89	3.669+01	2.846+02	9.573-11	6.344-03
8	127	3.481+01	2.250-01	6.423-14	8.483-06	9	90	3.668+01	4.067+01	1.915-11	1.268-03
8	129	3.402+01	1.539-02	1.145-15	1.412-07	9	91	3.665+01	4.030+02	1.353-10	8.938-03
8	130	3.394+01	1.024-00	1.263-13	1.545-05	9	92	3.663+01	1.379+04	6.474-09	4.271-01
8	131	3.388+01	9.452-00	6.971-13	8.489-05	9	93	3.647+01	3.764+03	7.505-10	4.885-02
8	136	3.189+01	6.688-01	7.285-14	7.401-06	9	102	3.624+01	7.502-01	2.462-13	1.574-05
8	137	3.189+01	3.559+01	5.428-12	5.513-04	9	103	3.624+01	6.771-01	3.111-13	1.988-05
8	138	3.189+01	4.727+02	9.265-11	9.406-03	9	106	3.622+01	1.014-01	4.652-14	2.968-06
8	139	3.188+01	2.797+01	4.260-12	4.321-04	9	115	3.536+01	1.440+01	4.498-12	2.670-04

Table 5. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic quadrupole (M2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
9	116	3.535+01	1.592+02	4.973-11	2.949-03	10	70	4.829+01	4.987-00	2.441-12	6.146-04
9	117	3.534+01	6.485+01	2.833-11	1.677-03	10	71	4.787+01	3.515+02	7.244-11	1.777-02
9	118	3.524+01	1.112+01	2.070-12	1.216-04	10	76	3.860+01	2.778+03	6.207-10	7.987-02
9	124	3.493+01	2.869-01	1.225-13	7.009-06	10	77	3.856+01	1.932+03	2.585-10	3.316-02
9	129	3.414+01	5.704-06	9.964-19	5.319-11	10	84	3.714+01	5.650-00	2.337-13	2.678-05
9	130	3.405+01	3.140-03	9.096-16	4.818-08	10	85	3.712+01	1.361+02	1.688-11	1.931-03
9	131	3.399+01	3.890-00	6.739-13	3.552-05	10	86	3.694+01	1.055-01	4.318-15	4.870-07
9	136	3.199+01	2.911+01	7.444-12	3.271-04	10	87	3.692+01	2.090+03	2.562-10	2.884-02
9	137	3.199+01	2.973-00	1.064-12	4.676-05	10	88	3.689+01	8.927+03	3.279-09	3.683-01
9	139	3.197+01	3.568-02	1.276-14	5.598-07	10	89	3.688+01	1.337+04	2.727-09	3.060-01
9	143	2.671+01	2.499-01	2.673-14	6.835-07	10	90	3.688+01	2.747+01	7.842-12	8.797-04
9	144	2.668+01	5.344-01	9.508-14	2.424-06	10	91	3.685+01	4.394+03	8.943-10	1.001-01
9	145	2.667+01	4.191-01	4.468-14	1.137-06	10	92	3.683+01	6.088+03	1.733-09	1.936-01
9	150	2.604+01	1.715+01	2.906-12	6.888-05	10	93	3.666+01	1.010+04	1.222-09	1.346-01
9	151	2.604+01	1.781-00	4.225-13	1.001-05	10	102	3.643+01	6.252-02	1.244-14	1.346-06
9	153	2.603+01	2.352-00	5.577-13	1.320-05	10	103	3.643+01	2.264-01	6.306-14	6.820-06
10	16	3.282+02	2.985-04	9.641-16	7.624-05	10	106	3.641+01	7.166-05	1.994-17	2.154-09
10	17	3.200+02	8.630-01	7.947-12	5.822-01	10	107	3.641+01	4.267-02	1.527-14	1.649-06
10	18	3.053+02	6.366-00	8.895-11	5.661-00	10	108	3.640+01	7.051-02	2.522-14	2.722-06
10	19	3.045+02	3.841-00	9.612-11	6.072-00	10	115	3.554+01	4.446-00	8.422-13	8.460-05
10	20	2.985+02	1.250-02	2.337-13	1.390-02	10	116	3.553+01	5.419+01	1.026-11	1.029-03
10	21	2.863+02	2.055-00	2.525-11	1.325-00	10	117	3.552+01	9.002-00	2.383-12	2.388-04
10	22	2.792+02	4.020-00	6.578-11	3.203-00	10	118	3.542+01	1.816+02	2.049-11	2.037-03
10	23	2.521+02	7.440-00	4.254-11	1.525-00	10	124	3.511+01	7.041-02	1.822-14	1.764-06
10	24	2.290+02	2.247-01	1.767-12	4.747-02	10	125	3.511+01	1.909-01	6.351-14	6.147-06
10	25	2.257+02	1.562-00	1.192-11	3.065-01	10	126	3.510+01	1.340-02	4.455-15	4.311-07
10	26	2.234+02	5.260-03	5.509-14	1.373-03	10	128	3.432+01	1.956-00	6.907-14	6.244-06
10	27	1.965+02	1.187+01	4.121-11	6.992-01	10	129	3.430+01	6.192-00	6.555-13	5.918-05
10	30	9.458+01	3.489-00	9.358-13	1.771-03	10	130	3.422+01	9.542-00	1.675-12	1.500-04
10	31	9.425+01	3.127+01	2.499-11	4.680-02	10	131	3.416+01	6.960-00	7.304-13	6.511-05
10	32	9.262+01	4.163+02	5.354-10	9.516-01	10	136	3.214+01	3.809-03	5.899-16	4.380-08
10	33	9.130+01	3.672+02	2.753-10	4.687-01	10	137	3.214+01	7.261-00	1.574-12	1.169-04
10	38	5.819+01	2.613+03	1.326-09	5.844-01	10	138	3.213+01	2.803-01	7.811-14	5.797-06
10	39	5.801+01	1.820+03	5.511-10	2.407-01	10	139	3.212+01	7.948+01	1.721-11	1.276-03
10	41	5.492+01	5.003-00	4.525-13	1.677-04	10	142	2.682+01	4.530-00	9.769-14	4.214-06
10	42	5.484+01	1.067+01	2.888-12	1.065-03	10	143	2.681+01	1.991-02	1.288-15	5.552-08
10	51	5.116+01	1.530-01	1.200-14	3.594-06	10	144	2.679+01	7.365-00	7.923-13	3.406-05
10	52	5.106+01	2.202+03	5.164-10	1.538-01	10	145	2.677+01	1.593-00	1.027-13	4.405-06
10	53	5.095+01	8.438+03	5.911-09	1.748-00	10	150	2.614+01	7.278-02	7.455-15	2.978-07
10	54	5.091+01	1.301+04	5.054-09	1.492-00	10	151	2.614+01	5.010-00	7.185-13	2.870-05
10	55	5.088+01	2.795+01	1.519-11	4.476-03	10	152	2.614+01	2.498-00	4.606-13	1.839-05
10	57	5.075+01	3.838+03	1.482-09	4.334-01	10	153	2.613+01	5.739+01	8.225-12	3.283-04
10	58	5.067+01	5.543+03	2.987-09	8.694-01	11	18	3.540+02	5.893-01	5.537-11	1.099-00
10	59	5.013+01	7.794+03	1.762-09	4.965-01	11	21	3.287+02	3.709-01	3.004-11	4.772-01
10	68	4.839+01	1.252+01	4.396-12	1.114-03	11	24	2.554+02	9.292-02	4.544-12	3.386-02
10	69	4.835+01	1.121+02	3.927-11	9.926-03	11	25	2.512+02	3.472-00	1.643-10	1.165-00

Table 5. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic quadrupole (M2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
11	32	9.666+01	8.288+01	5.805-10	2.345-01	12	89	3.773+01	3.622-01	1.288-13	9.284-06
11	38	5.976+01	4.523+02	1.211-09	1.155-01	12	90	3.772+01	1.331-00	6.624-13	4.772-05
11	54	5.211+01	3.490+03	7.103-09	4.495-01	12	91	3.769+01	2.308-00	8.193-13	5.887-05
11	57	5.194+01	1.250+03	2.528-09	1.585-01	12	92	3.767+01	3.161+02	1.569-10	1.125-02
11	68	4.947+01	1.248+02	2.289-10	1.240-02	12	93	3.750+01	2.015+02	4.247-11	3.004-03
11	69	4.942+01	1.877+03	3.437-09	1.856-01	12	102	3.726+01	1.142-00	3.960-13	2.749-05
11	76	3.929+01	5.212+02	6.031-10	1.636-02	12	103	3.726+01	3.800-01	1.845-13	1.280-05
11	89	3.751+01	4.078+03	4.300-09	1.015-01	12	106	3.724+01	1.414-00	6.857-13	4.752-05
11	91	3.747+01	1.462+03	1.538-09	3.619-02	12	115	3.633+01	5.008+02	1.651-10	1.063-02
11	102	3.704+01	1.400-01	1.440-13	3.275-06	12	116	3.632+01	1.415+03	4.663-10	2.997-02
11	115	3.612+01	1.117+02	1.092-10	2.303-03	12	117	3.630+01	6.762+03	3.117-09	2.001-01
11	116	3.611+01	1.820+03	1.779-09	3.748-02	12	118	3.619+01	9.593+02	1.884-10	1.199-02
11	130	3.475+01	3.001-00	2.716-12	5.100-05	12	124	3.588+01	1.287-02	5.796-15	3.591-07
11	136	3.261+01	5.765-00	4.596-12	7.131-05	12	129	3.503+01	9.462-02	1.741-14	1.005-06
11	144	2.711+01	3.858-01	2.126-13	1.896-06	12	130	3.494+01	2.790-00	8.511-13	4.873-05
11	150	2.645+01	2.084-00	1.093-12	9.046-06	12	131	3.488+01	1.123+01	2.049-12	1.167-04
12	17	3.972+02	2.206-03	5.218-14	4.387-03	12	136	3.278+01	4.373+01	1.174-11	5.550-04
12	18	3.748+02	1.326-02	4.653-13	3.288-02	12	137	3.278+01	5.532-01	2.079-13	9.826-06
12	20	3.646+02	1.841-02	8.560-13	5.567-02	12	139	3.276+01	3.819+01	1.434-11	6.766-04
12	21	3.466+02	1.774-03	5.323-14	2.973-03	12	143	2.726+01	7.954-01	8.859-14	2.408-06
12	22	3.363+02	5.178-02	2.048-12	1.045-01	12	144	2.723+01	1.984-01	3.676-14	9.960-07
12	23	2.978+02	1.658-04	2.204-15	7.808-05	12	145	2.721+01	1.737-00	1.928-13	5.212-06
12	24	2.660+02	2.785-01	4.926-12	1.245-01	12	150	2.656+01	2.958+01	5.213-12	1.311-04
12	25	2.615+02	1.363-00	2.329-11	5.592-01	12	151	2.656+01	2.011-02	4.964-15	1.248-07
12	26	2.585+02	6.667-00	1.558-10	3.610-00	12	153	2.655+01	3.346+01	8.253-12	2.074-04
12	27	2.231+02	2.398-00	1.790-11	2.668-01	13	17	4.427+02	2.384-02	7.003-13	8.153-02
12	31	9.998+01	1.133-00	1.698-12	2.278-03	13	18	4.151+02	5.640-02	2.428-12	2.331-01
12	32	9.815+01	5.526-00	1.330-11	1.688-02	13	20	4.026+02	1.424-02	8.070-13	7.066-02
12	33	9.666+01	5.142-00	7.203-12	8.731-03	13	21	3.807+02	1.320-02	4.782-13	3.541-02
12	38	6.032+01	5.024+01	4.567-11	1.345-02	13	22	3.683+02	3.389-02	1.608-12	1.079-01
12	39	6.013+01	1.347+01	7.300-12	2.130-03	13	23	3.226+02	2.719-01	4.243-12	1.912-01
12	42	5.673+01	3.091+01	1.491-11	3.654-03	13	24	2.857+02	9.775-02	1.994-12	6.242-02
12	52	5.270+01	2.861+01	1.191-11	2.340-03	13	25	2.805+02	1.445+01	2.842-10	8.419-00
12	54	5.254+01	9.453-00	6.519-12	1.269-03	13	26	2.770+02	2.626-00	7.047-11	2.010-00
12	55	5.251+01	1.245+01	1.201-11	2.333-03	13	27	2.368+02	6.909-01	5.808-12	1.035-01
12	57	5.237+01	3.074-00	2.106-12	4.059-04	13	31	1.026+02	1.235+01	1.951-11	2.830-02
12	58	5.228+01	2.524+02	2.414-10	4.630-02	13	32	1.007+02	6.871-00	1.741-11	2.386-02
12	59	5.171+01	7.314+01	2.932-11	5.439-03	13	33	9.914+01	1.423+01	2.096-11	2.742-02
12	68	4.986+01	4.103+02	2.548-10	4.239-02	13	38	6.128+01	5.472+01	5.134-11	1.585-02
12	69	4.981+01	1.381+03	8.558-10	1.419-01	13	39	6.108+01	3.898+01	2.180-11	6.669-03
12	70	4.975+01	6.346+03	5.494-09	9.078-01	13	42	5.758+01	3.720+03	1.849-09	4.736-01
12	71	4.930+01	8.858+02	3.228-10	5.192-02	13	52	5.343+01	2.109+02	9.024-11	1.847-02
12	76	3.953+01	5.817+01	2.271-11	1.883-03	13	54	5.326+01	1.757+01	1.246-11	2.526-03
12	77	3.949+01	1.247+01	2.916-12	2.410-04	13	55	5.323+01	4.419+01	4.381-11	8.867-03
12	85	3.798+01	3.968+01	8.581-12	6.308-04	13	57	5.309+01	6.094+01	4.291-11	8.616-03
12	87	3.777+01	2.875+01	6.148-12	4.444-04	13	58	5.300+01	1.183+02	1.163-10	2.324-02

Table 5. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic quadrupole (M2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
13	59	5.241+01	8.355+02	3.440-10	6.646-02	14	30	1.033+02	2.466+01	7.899-12	1.951-02
13	68	5.051+01	1.796+01	1.145-11	1.980-03	14	31	1.030+02	4.944-00	4.714-12	1.151-02
13	69	5.046+01	2.151+04	1.369-08	2.360-00	14	32	1.010+02	4.234-01	6.478-13	1.494-03
13	70	5.040+01	3.666+03	3.257-09	5.595-01	14	33	9.945+01	5.540-01	4.929-13	1.084-03
13	71	4.994+01	5.542+01	2.072-11	3.464-03	14	38	6.140+01	2.777-02	1.570-14	8.124-06
13	76	3.994+01	7.276+01	2.900-11	2.480-03	14	39	6.120+01	4.163-00	1.403-12	7.191-04
13	77	3.990+01	2.465+01	5.883-12	5.014-04	14	41	5.777+01	8.230+03	8.236-10	3.552-01
13	85	3.836+01	3.417+03	7.536-10	5.707-02	14	42	5.768+01	4.078+03	1.221-09	5.240-01
13	87	3.814+01	3.299+02	7.195-11	5.357-03	14	51	5.362+01	4.570-01	3.940-14	1.358-05
13	89	3.810+01	2.036+01	7.386-12	5.482-04	14	52	5.352+01	1.552+01	3.999-12	1.371-03
13	90	3.810+01	2.559+01	1.299-11	9.638-04	14	53	5.339+01	2.678+01	2.060-11	7.012-03
13	91	3.806+01	7.169+01	2.595-11	1.920-03	14	54	5.335+01	2.448+02	1.045-10	3.548-02
13	92	3.804+01	1.165+02	5.899-11	4.357-03	14	55	5.332+01	3.683+01	2.198-11	7.451-03
13	93	3.786+01	1.336+03	2.870-10	2.091-02	14	57	5.318+01	9.825-01	4.165-13	1.401-04
13	102	3.762+01	5.617-03	1.986-15	1.420-07	14	58	5.309+01	8.807-00	5.210-12	1.744-03
13	103	3.762+01	4.460-02	2.208-14	1.578-06	14	59	5.249+01	6.264-00	1.553-12	5.023-04
13	106	3.760+01	1.183-01	5.852-14	4.175-06	14	68	5.059+01	1.562+01	5.996-12	1.737-03
13	115	3.667+01	2.391-00	8.037-13	5.320-05	14	69	5.054+01	9.125+03	3.494-09	1.009-00
13	116	3.666+01	2.277+04	7.648-09	5.058-01	14	70	5.048+01	2.647+04	1.415-08	4.071-00
13	117	3.664+01	3.920+03	1.841-09	1.216-01	14	71	5.002+01	3.369-01	7.581-14	2.122-05
13	118	3.654+01	3.306+01	6.618-12	4.332-04	14	76	3.999+01	2.051-01	4.917-14	7.033-06
13	124	3.621+01	5.867-02	2.691-14	1.715-06	14	77	3.995+01	5.867-01	8.421-14	1.201-05
13	129	3.535+01	3.422-00	6.413-13	3.803-05	14	84	3.842+01	8.251+03	3.652-10	4.632-02
13	130	3.526+01	2.121+01	6.589-12	3.877-04	14	85	3.840+01	4.081+03	5.413-10	6.857-02
13	131	3.520+01	2.002+01	3.719-12	2.177-04	14	86	3.821+01	2.010+01	8.802-13	1.098-04
13	136	3.306+01	1.921-02	5.246-15	2.544-07	14	87	3.819+01	3.470+01	4.551-12	5.668-04
13	137	3.306+01	3.898-00	1.490-12	7.226-05	14	88	3.816+01	3.167+01	1.244-11	1.546-03
13	139	3.304+01	5.613-01	2.144-13	1.038-05	14	89	3.815+01	1.549+02	3.378-11	4.194-03
13	143	2.745+01	1.421-02	1.605-15	4.456-08	14	90	3.814+01	1.718-00	5.244-13	6.509-05
13	144	2.742+01	1.105-02	2.076-15	5.744-08	14	91	3.811+01	2.725-00	5.932-13	7.342-05
13	145	2.740+01	1.238+01	1.394-12	3.850-05	14	92	3.808+01	2.040+01	6.210-12	7.673-04
13	150	2.674+01	2.924-01	5.226-14	1.342-06	14	93	3.791+01	1.962+01	2.536-12	3.091-04
13	151	2.674+01	1.072-00	2.683-13	6.888-06	14	102	3.767+01	1.962-01	4.172-14	4.987-06
13	153	2.674+01	1.113-01	2.784-14	7.142-07	14	103	3.766+01	5.691-00	1.694-12	2.025-04
14	16	4.653+02	3.304-04	2.145-15	4.834-04	14	106	3.765+01	5.849-01	1.740-13	2.076-05
14	17	4.489+02	2.718-03	4.928-14	9.972-03	14	107	3.764+01	8.645-01	3.306-13	3.944-05
14	18	4.206+02	7.499-02	1.989-12	3.309-01	14	108	3.764+01	4.832-03	1.847-15	2.202-07
14	19	4.191+02	1.464-03	6.940-14	1.143-02	14	115	3.672+01	1.975-03	3.991-16	4.419-08
14	20	4.077+02	3.029-02	1.057-12	1.602-01	14	116	3.671+01	9.743+03	1.968-09	2.177-01
14	21	3.853+02	1.282-04	2.853-15	3.651-04	14	117	3.669+01	2.829+04	7.992-09	8.826-01
14	22	3.726+02	6.957-04	2.028-14	2.347-03	14	118	3.658+01	9.648-02	1.161-14	1.271-06
14	23	3.259+02	6.527-03	6.237-14	4.830-03	14	124	3.625+01	3.208-01	8.848-14	9.430-06
14	24	2.883+02	6.086-02	7.584-13	4.066-02	14	125	3.625+01	1.313-02	4.656-15	4.961-07
14	25	2.830+02	5.607-00	6.733-11	3.414-00	14	126	3.625+01	1.423-03	5.047-16	5.376-08
14	26	2.794+02	1.878+01	3.077-10	1.502+01	14	128	3.541+01	1.846+01	6.940-13	6.892-05
14	27	2.386+02	3.815-02	1.953-13	5.933-03	14	129	3.539+01	2.865-01	3.229-14	3.202-06

Table 5. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic quadrupole (M2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
14	130	3.530+01	1.593+01	2.975-12	2.927-04	16	112	4.087+01	8.683-01	1.087-12	3.320-05
14	131	3.524+01	4.512-01	5.040-14	4.933-06	16	123	3.935+01	5.449-02	6.324-14	1.724-06
14	136	3.310+01	3.451-00	5.667-13	4.595-05	16	133	3.643+01	2.068-00	2.057-12	4.447-05
14	137	3.309+01	6.946+01	1.597-11	1.294-03	16	135	3.623+01	3.590+01	3.532-11	7.512-04
14	138	3.309+01	2.551+01	7.536-12	6.106-04	16	147	2.865+01	1.071-00	6.588-13	6.931-06
14	139	3.308+01	1.886+02	4.330-11	3.505-03	16	149	2.859+01	1.664+01	1.020-11	1.066-04
14	142	2.748+01	4.839-00	1.096-13	5.086-06	17	28	2.088+02	2.840-03	1.855-14	2.265-04
14	143	2.748+01	8.623-00	5.855-13	2.716-05	17	34	9.047+01	2.601+01	3.191-11	3.171-02
14	144	2.745+01	1.798-00	2.031-13	9.390-06	17	35	9.038+01	2.689+02	5.488-10	5.437-01
14	145	2.743+01	1.994+01	1.349-12	6.228-05	17	36	9.021+01	7.619+01	2.169-10	2.136-01
14	150	2.677+01	1.619-00	1.739-13	7.458-06	17	37	8.697+01	6.347+01	1.199-10	1.059-01
14	151	2.677+01	6.417+01	9.650-12	4.139-04	17	40	6.632+01	1.757+02	1.158-10	4.535-02
14	152	2.676+01	1.479+01	2.860-12	1.226-04	17	43	6.600+01	4.064+01	4.424-11	1.707-02
14	153	2.676+01	1.610+02	2.419-11	1.037-03	17	44	6.577+01	3.465-00	5.244-12	2.002-03
15	18	8.745+02	9.008-03	5.164-12	1.545-00	17	45	6.563+01	9.924+01	6.408-11	2.431-02
15	21	7.348+02	3.558-03	1.440-12	2.555-01	17	46	6.543+01	7.072+01	7.563-11	2.843-02
15	24	4.476+02	3.617-02	5.432-12	2.179-01	17	48	6.192+01	2.716-02	1.561-14	4.972-06
15	25	4.349+02	5.067-02	7.185-12	2.644-01	17	49	6.155+01	6.871-00	3.903-12	1.222-03
15	32	1.154+02	4.877+01	4.870-10	3.350-01	17	50	6.148+01	1.440-00	1.360-12	4.242-04
15	38	6.643+01	3.698+02	1.223-09	1.604-01	17	60	5.836+01	4.447+03	2.270-09	6.055-01
15	54	5.711+01	3.277+03	8.012-09	6.676-01	17	63	5.832+01	1.842+04	1.565-08	4.166-00
15	57	5.691+01	8.492+02	2.062-09	1.700-01	17	64	5.823+01	6.588+02	7.814-10	2.070-01
15	68	5.396+01	2.880+02	6.286-10	4.418-02	17	65	5.821+01	7.336+03	6.211-09	1.644-00
15	69	5.390+01	1.432+03	3.118-09	2.185-01	17	66	5.820+01	1.862+03	2.207-09	5.839-01
15	76	4.207+01	5.591+02	7.416-10	2.469-02	17	72	5.502+01	9.887+01	1.047-10	2.341-02
15	89	4.003+01	3.694+03	4.437-09	1.273-01	17	74	5.497+01	2.933+02	3.100-10	6.908-02
15	91	3.999+01	1.192+03	1.429-09	4.088-02	17	75	5.496+01	1.564+02	1.181-10	2.630-02
15	102	3.950+01	6.666-04	7.797-16	2.150-08	17	78	4.295+01	1.552+02	4.293-11	4.566-03
15	115	3.846+01	2.536+02	2.812-10	7.156-03	17	79	4.288+01	2.780+01	1.277-11	1.351-03
15	116	3.845+01	1.929+03	2.137-09	5.432-02	17	80	4.283+01	4.722-00	3.030-12	3.195-04
15	130	3.691+01	5.995+01	6.122-11	1.377-03	17	81	4.280+01	8.303+01	2.280-11	2.399-03
15	136	3.450+01	2.746-01	2.451-13	4.503-06	17	82	4.276+01	5.695+01	2.602-11	2.729-03
15	144	2.841+01	2.885-00	1.745-12	1.790-05	17	94	4.118+01	3.149+03	8.005-10	7.502-02
15	150	2.768+01	9.107-02	5.231-14	4.964-07	17	95	4.117+01	1.212+04	5.133-09	4.805-01
16	35	8.974+01	1.089+02	6.574-10	2.125-01	17	98	4.114+01	2.905+02	1.720-10	1.606-02
16	37	8.638+01	2.117+01	1.184-10	3.415-02	17	99	4.112+01	6.997+03	2.957-09	2.760-01
16	43	6.567+01	6.230-00	2.014-11	2.551-03	17	100	4.112+01	1.618+03	9.574-10	8.935-02
16	46	6.509+01	2.896-02	9.197-14	1.135-05	17	110	4.110+01	9.473+01	2.398-11	2.234-03
16	50	6.119+01	6.030-01	1.692-12	1.734-04	17	111	4.103+01	2.719+01	6.864-12	6.366-04
16	63	5.805+01	6.740+02	1.703-09	1.490-01	17	112	4.100+01	2.688+01	1.129-11	1.044-03
16	65	5.795+01	7.109+03	1.789-08	1.557-00	17	114	4.006+01	3.092-00	7.439-13	6.419-05
16	75	5.473+01	1.099-01	2.468-13	1.809-05	17	120	3.949+01	5.182+01	2.826-11	2.335-03
16	79	4.274+01	6.125-00	8.386-12	2.928-04	17	121	3.948+01	2.273+02	1.239-10	1.023-02
16	82	4.262+01	6.359-02	8.656-14	2.997-06	17	123	3.947+01	1.027+02	3.997-11	3.299-03
16	95	4.103+01	2.701+02	3.409-10	1.054-02	17	132	3.654+01	1.409+01	2.819-12	1.846-04
16	99	4.099+01	5.555+03	6.997-09	2.156-01	17	133	3.653+01	9.110+01	3.038-11	1.987-03

Table 5. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic quadrupole (M2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
17	134	3.652+01	2.345-00	1.094-12	7.148-05	18	100	4.138+01	1.961+03	7.046-10	1.117-01
17	135	3.633+01	8.728+01	2.879-11	1.852-03	18	101	4.137+01	5.188+03	2.397-09	3.796-01
17	140	2.974+01	2.384-00	3.160-13	1.115-05	18	110	4.135+01	5.859-02	9.011-15	1.425-06
17	146	2.872+01	2.107-00	2.605-13	8.278-06	18	111	4.129+01	5.419+01	8.310-12	1.308-03
17	147	2.871+01	2.759+01	5.685-12	1.806-04	18	112	4.125+01	1.438+02	3.669-11	5.762-03
17	148	2.871+01	1.053-00	3.037-13	9.645-06	18	113	4.108+01	4.432+01	2.243-12	3.479-04
17	149	2.865+01	3.985+01	8.175-12	2.581-04	18	114	4.030+01	2.431-00	3.552-13	5.201-05
17	154	2.844+01	5.182-01	1.466-13	4.524-06	18	119	4.003+01	1.601+01	7.693-13	1.104-04
18	28	2.155+02	1.846-03	7.712-15	1.726-04	18	120	3.972+01	3.866-04	1.280-16	1.795-08
18	29	1.933+02	1.521-00	1.704-12	2.752-02	18	121	3.971+01	2.787+03	9.227-10	1.293-01
18	34	9.171+01	5.461+01	4.132-11	7.129-02	18	122	3.971+01	2.025+02	8.620-11	1.208-02
18	35	9.162+01	3.746+01	4.714-11	8.110-02	18	123	3.971+01	8.517-02	2.013-14	2.819-06
18	36	9.144+01	5.410+02	9.495-10	1.624-00	18	132	3.674+01	4.667-01	5.667-14	6.285-06
18	37	8.812+01	9.199+01	1.071-10	1.639-01	18	133	3.673+01	5.999+01	1.213-11	1.345-03
18	40	6.699+01	2.153+02	8.689-11	5.842-02	18	134	3.672+01	2.486+02	7.035-11	7.791-03
18	43	6.667+01	8.527+01	5.682-11	3.765-02	18	135	3.653+01	5.511+01	1.102-11	1.202-03
18	44	6.643+01	1.368+02	1.267-10	8.308-02	18	140	2.987+01	3.315-00	2.661-13	1.586-05
18	45	6.628+01	1.813+01	7.163-12	4.666-03	18	141	2.979+01	9.253-01	2.462-14	1.456-06
18	46	6.607+01	6.848+02	4.482-10	2.892-01	18	146	2.884+01	3.467-02	2.594-15	1.392-07
18	47	6.472+01	1.074+03	1.348-10	8.177-02	18	147	2.884+01	9.936-00	1.239-12	6.646-05
18	48	6.250+01	1.422+01	4.994-12	2.727-03	18	148	2.883+01	7.617+01	1.329-11	7.127-04
18	49	6.213+01	7.256+01	2.519-11	1.351-02	18	149	2.878+01	1.925+01	2.390-12	1.274-04
18	50	6.206+01	2.456+01	1.418-11	7.579-03	18	154	2.856+01	4.390-01	7.516-14	3.916-06
18	56	6.103+01	2.033+02	2.270-11	1.155-02	18	155	2.856+01	1.326-01	2.919-14	1.521-06
18	60	5.887+01	6.731+02	2.099-10	9.578-02	18	157	2.856+01	1.875-00	4.127-13	2.150-05
18	61	5.887+01	1.011+02	9.455-11	4.315-02	19	35	9.169+01	2.361+02	1.653-10	5.131-01
18	63	5.883+01	2.706+04	1.404-08	6.396-00	19	36	9.151+01	2.639+02	2.577-10	7.952-01
18	64	5.874+01	2.386+04	1.728-08	7.833-00	19	37	8.819+01	6.449+02	4.178-10	1.153-00
18	65	5.872+01	5.970+03	3.086-09	1.398-00	19	43	6.670+01	5.690+02	2.109-10	2.519-01
18	66	5.872+01	5.317+03	3.847-09	1.742-00	19	44	6.646+01	1.538+03	7.922-10	9.364-01
18	67	5.869+01	6.897+03	6.411-09	2.900-00	19	46	6.611+01	6.920+02	2.519-10	2.930-01
18	72	5.548+01	1.684+01	1.088-11	4.157-03	19	50	6.209+01	1.674-00	5.376-13	5.181-04
18	73	5.545+01	3.044+02	2.526-10	9.636-02	19	61	5.890+01	4.734+02	2.462-10	2.026-01
18	74	5.542+01	3.688+03	2.378-09	9.055-01	19	62	5.890+01	6.653+04	4.228-08	3.478+01
18	75	5.542+01	1.107-01	5.099-14	1.941-05	19	63	5.886+01	2.030+02	5.858-11	4.810-02
18	78	4.323+01	1.697+02	2.853-11	5.155-03	19	64	5.877+01	2.344+03	9.439-10	7.714-01
18	79	4.316+01	7.710+01	2.153-11	3.871-03	19	65	5.875+01	6.610+01	1.900-11	1.552-02
18	80	4.311+01	9.204+01	3.590-11	6.432-03	19	66	5.874+01	8.922+02	3.590-10	2.930-01
18	81	4.308+01	2.447+01	4.084-12	7.301-04	19	67	5.872+01	2.180+04	1.127-08	9.186-00
18	82	4.303+01	6.234+02	1.731-10	3.086-02	19	72	5.551+01	5.466-01	1.964-13	1.352-04
18	83	4.270+01	1.084+03	5.924-11	1.032-02	19	73	5.548+01	1.585+01	7.313-12	5.027-03
18	94	4.144+01	4.890+02	7.552-11	1.202-02	19	74	5.545+01	1.811+01	6.491-12	4.455-03
18	95	4.142+01	1.822+04	4.685-09	7.447-01	19	75	5.545+01	2.428-05	6.217-18	4.266-09
18	97	4.142+01	1.015+02	4.699-11	7.467-03	19	79	4.317+01	5.100+02	7.918-11	2.565-02
18	98	4.139+01	1.962+04	7.053-09	1.119-00	19	80	4.312+01	1.294+03	2.805-10	9.056-02
18	99	4.138+01	6.144+03	1.577-09	2.500-01	19	82	4.305+01	6.035+02	9.315-11	2.992-02

Table 5. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic quadrupole (M2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
19	95	4.144+01	1.073+02	1.535-11	4.396-03	20	75	5.565+01	1.015+01	3.366-12	1.817-03
19	96	4.143+01	4.919+04	1.547-08	4.430-00	20	78	4.337+01	3.812+01	4.607-12	1.177-03
19	97	4.143+01	2.623+02	6.749-11	1.932-02	20	79	4.330+01	3.692+01	7.411-12	1.884-03
19	98	4.141+01	1.909+03	3.816-10	1.090-01	20	80	4.325+01	1.762-00	4.939-13	1.251-04
19	99	4.139+01	3.800+01	5.423-12	1.549-03	20	81	4.322+01	2.265-00	2.718-13	6.869-05
19	100	4.139+01	3.953+02	7.897-11	2.255-02	20	82	4.317+01	6.732-01	1.344-13	3.386-05
19	101	4.139+01	1.667+04	4.280-09	1.222-00	20	94	4.157+01	2.191+02	2.432-11	5.468-03
19	112	4.127+01	8.041-02	1.141-14	3.227-06	20	95	4.155+01	6.841+02	1.265-10	2.840-02
19	120	3.973+01	9.825-01	1.809-13	4.568-05	20	96	4.154+01	7.355+03	2.991-09	6.715-01
19	121	3.973+01	3.961+01	7.288-12	1.840-03	20	97	4.154+01	3.688+03	1.227-09	2.755-01
19	122	3.972+01	8.582-00	2.030-12	5.125-04	20	98	4.152+01	2.503+03	6.469-10	1.450-01
19	123	3.972+01	1.598-00	2.100-13	5.297-05	20	99	4.151+01	3.081+02	5.685-11	1.273-02
19	133	3.674+01	3.432-03	3.859-16	7.708-08	20	100	4.151+01	1.476+03	3.813-10	8.539-02
19	134	3.673+01	7.833+01	1.232-11	2.458-03	20	101	4.150+01	4.523+03	1.502-09	3.361-01
19	135	3.654+01	7.488+01	8.327-12	1.636-03	20	110	4.148+01	3.460-02	3.824-15	8.547-07
19	147	2.884+01	2.322+01	1.609-12	1.555-04	20	111	4.142+01	3.108-00	3.425-13	7.621-05
19	148	2.884+01	9.386+02	9.104-11	8.793-03	20	112	4.138+01	2.407+01	4.413-12	9.793-04
19	149	2.878+01	4.275+02	2.950-11	2.832-03	20	114	4.043+01	6.669-02	7.003-15	1.449-06
19	154	2.857+01	9.206-02	8.759-15	8.221-07	20	120	3.984+01	2.177-00	5.179-13	1.026-04
19	155	2.857+01	1.202-00	1.470-13	1.380-05	20	121	3.983+01	1.732+02	4.120-11	8.153-03
19	156	2.857+01	4.699-00	7.025-13	6.592-05	20	122	3.983+01	7.830+02	2.394-10	4.738-02
19	157	2.857+01	1.302-01	1.593-14	1.495-06	20	123	3.983+01	1.224+01	2.080-12	4.114-04
20	28	2.190+02	8.855-03	2.730-14	8.983-04	20	132	3.684+01	2.348-00	2.047-13	3.206-05
20	34	9.235+01	8.114+02	4.446-10	1.097-00	20	133	3.683+01	1.963+01	2.852-12	4.463-04
20	35	9.225+01	2.207+02	2.011-10	4.945-01	20	134	3.682+01	9.283-02	1.887-14	2.949-06
20	36	9.207+01	3.108-00	3.951-12	9.657-03	20	135	3.663+01	2.400-00	3.448-13	5.306-05
20	37	8.871+01	1.748+02	1.473-10	3.219-01	20	140	2.994+01	5.084-02	2.927-15	2.459-07
20	40	6.732+01	4.008+01	1.167-11	1.116-02	20	146	2.890+01	3.883-00	2.084-13	1.576-05
20	43	6.700+01	5.090+01	2.447-11	2.304-02	20	147	2.890+01	1.584+02	1.417-11	1.071-03
20	44	6.676+01	1.973-00	1.318-12	1.228-03	20	148	2.890+01	6.944-00	8.693-13	6.569-05
20	45	6.661+01	5.457-01	1.556-13	1.440-04	20	149	2.884+01	9.394-01	8.367-14	6.284-06
20	46	6.640+01	5.375-01	2.538-13	2.327-04	20	154	2.862+01	8.715-01	1.070-13	7.857-06
20	48	6.279+01	2.149+01	5.443-12	4.220-03	20	155	2.862+01	7.158-00	1.130-12	8.297-05
20	49	6.242+01	1.160+01	2.902-12	2.210-03	20	156	2.862+01	3.219-01	6.211-14	4.559-06
20	50	6.235+01	1.976+01	8.226-12	6.243-03	20	157	2.862+01	6.260-02	9.882-15	7.254-07
20	60	5.913+01	3.297+02	7.407-11	4.796-02	21	28	2.261+02	2.414-02	1.110-13	2.871-03
20	61	5.913+01	4.761+03	3.209-09	2.078-00	21	29	2.018+02	3.274-02	3.996-14	7.341-04
20	62	5.913+01	9.896+03	8.151-09	5.277-00	21	34	9.358+01	1.792+02	1.412-10	2.588-01
20	63	5.909+01	8.980+02	3.358-10	2.170-01	21	35	9.348+01	2.892+02	3.789-10	6.925-01
20	64	5.900+01	3.895+03	2.033-09	1.307-00	21	36	9.330+01	6.263+01	1.144-10	2.079-01
20	65	5.898+01	4.947+02	1.843-10	1.184-01	21	37	8.985+01	8.355+01	1.011-10	1.640-01
20	66	5.897+01	1.293+03	6.741-10	4.330-01	21	40	6.798+01	1.390+02	5.778-11	4.060-02
20	67	5.895+01	6.344+03	4.250-09	2.727-00	21	43	6.765+01	1.974-01	1.354-13	9.377-05
20	72	5.571+01	7.280-00	3.387-12	1.834-03	21	44	6.740+01	4.134+01	3.941-11	2.699-02
20	73	5.569+01	1.012+03	6.050-10	3.271-01	21	45	6.725+01	2.477+01	1.008-11	6.855-03
20	74	5.565+01	2.428+02	1.127-10	6.086-02	21	46	6.704+01	1.526+02	1.028-10	6.929-02

Table 5. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic quadrupole (M2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
21	47	6.565+01	3.763+02	4.863-11	3.077-02	21	147	2.902+01	7.442-00	9.396-13	5.137-05
21	48	6.336+01	1.393-01	5.030-14	2.862-05	21	148	2.902+01	1.573-01	2.780-14	1.519-06
21	49	6.298+01	8.604-01	3.070-13	1.715-04	21	149	2.896+01	1.246+01	1.566-12	8.508-05
21	50	6.291+01	2.464-01	1.462-13	8.140-05	21	154	2.874+01	3.983-00	6.903-13	3.665-05
21	56	6.185+01	1.216+01	1.395-12	7.384-04	21	155	2.874+01	3.777-00	8.417-13	4.468-05
21	60	5.964+01	2.644+03	8.459-10	4.013-01	21	157	2.874+01	1.662-00	3.703-13	1.966-05
21	61	5.964+01	3.983+03	3.822-09	1.813-00	22	28	2.307+02	8.115-02	2.775-13	1.067-02
21	63	5.960+01	8.783+01	4.677-11	2.214-02	22	34	9.436+01	6.382-00	3.651-12	9.606-03
21	64	5.950+01	1.183+02	8.789-11	4.141-02	22	35	9.426+01	1.180+02	1.122-10	2.943-01
21	65	5.948+01	5.849+03	3.103-09	1.461-00	22	36	9.407+01	4.935+02	6.548-10	1.707-00
21	66	5.947+01	1.137+03	8.439-10	3.971-01	22	37	9.056+01	1.776+02	1.560-10	3.629-01
21	67	5.945+01	1.736+04	1.656-08	7.785-00	22	40	6.839+01	2.075+01	6.235-12	6.245-03
21	72	5.616+01	1.797+02	1.190-10	4.713-02	22	43	6.805+01	2.162+02	1.072-10	1.058-01
21	73	5.613+01	2.553+02	2.171-10	8.588-02	22	44	6.780+01	6.709+02	4.624-10	4.514-01
21	74	5.610+01	9.185-00	6.067-12	2.396-03	22	45	6.765+01	1.622+03	4.771-10	4.626-01
21	75	5.610+01	1.607+02	7.581-11	2.993-02	22	46	6.744+01	3.785+02	1.843-10	1.770-01
21	78	4.364+01	1.290+02	2.209-11	4.107-03	22	48	6.371+01	7.472-04	1.949-16	1.578-07
21	79	4.357+01	1.715-01	4.881-14	9.029-06	22	49	6.333+01	5.115-00	1.318-12	1.048-03
21	80	4.352+01	3.589+01	1.426-11	2.629-03	22	50	6.326+01	1.070-00	4.585-13	3.634-04
21	81	4.348+01	2.486+01	4.229-12	7.778-04	22	60	5.995+01	7.534-01	1.740-13	1.174-04
21	82	4.344+01	1.511+02	4.274-11	7.837-03	22	61	5.995+01	1.030+03	7.134-10	4.814-01
21	83	4.310+01	3.828+02	2.132-11	3.818-03	22	62	5.995+01	1.389+04	1.176-08	7.934-00
21	94	4.181+01	1.797+03	2.826-10	4.622-02	22	63	5.991+01	4.021+03	1.546-09	1.041-00
21	95	4.180+01	3.863-00	1.012-12	1.652-04	22	64	5.981+01	2.046+04	1.097-08	7.354-00
21	97	4.179+01	2.711+03	1.278-09	2.086-01	22	65	5.980+01	2.095+03	8.022-10	5.371-01
21	98	4.177+01	2.665+01	9.757-12	1.590-03	22	66	5.979+01	8.368+03	4.484-09	3.001-00
21	99	4.176+01	4.587+03	1.199-09	1.953-01	22	67	5.977+01	3.359+04	2.313-08	1.546+01
21	100	4.175+01	8.815+02	3.225-10	5.252-02	22	72	5.644+01	2.001-00	9.556-13	5.380-04
21	101	4.175+01	1.327+04	6.240-09	1.015-00	22	73	5.641+01	1.339+02	8.213-11	4.617-02
21	110	4.173+01	5.232+01	8.194-12	1.332-03	22	74	5.638+01	2.124+02	1.012-10	5.679-02
21	111	4.166+01	7.172-00	1.120-12	1.812-04	22	75	5.638+01	5.148-03	1.752-15	9.831-07
21	112	4.163+01	8.560-01	2.224-13	3.588-05	22	78	4.381+01	2.494+01	3.075-12	8.097-04
21	113	4.146+01	5.904-01	3.042-14	4.848-06	22	79	4.374+01	2.081+02	4.263-11	1.117-02
21	114	4.066+01	1.954-01	2.906-14	4.369-06	22	80	4.368+01	7.131+02	2.040-10	5.326-02
21	119	4.038+01	3.909-02	1.912-15	2.817-07	22	81	4.365+01	1.604+03	1.964-10	5.115-02
21	120	4.007+01	1.428+02	4.812-11	6.923-03	22	82	4.361+01	3.846+02	7.833-11	2.034-02
21	121	4.006+01	3.678-00	1.239-12	1.782-04	22	94	4.197+01	6.969-03	7.887-16	1.826-07
21	122	4.006+01	2.199+02	9.523-11	1.369-02	22	95	4.195+01	2.457+03	4.631-10	1.071-01
21	123	4.005+01	1.030+02	2.476-11	3.559-03	22	96	4.195+01	1.027+04	4.258-09	9.842-01
21	132	3.703+01	1.064+01	1.313-12	1.491-04	22	97	4.195+01	6.102+02	2.069-10	4.783-02
21	133	3.703+01	7.315-01	1.504-13	1.708-05	22	98	4.192+01	1.808+04	4.764-09	1.099-00
21	134	3.701+01	2.679-01	7.703-14	8.738-06	22	99	4.191+01	1.876+03	3.529-10	8.135-02
21	135	3.682+01	2.223-00	4.518-13	5.046-05	22	100	4.191+01	3.831+03	1.009-09	2.325-01
21	140	3.006+01	2.102-01	1.709-14	1.039-06	22	101	4.190+01	2.531+04	8.566-09	1.973-00
21	141	2.998+01	1.117-00	3.012-14	1.816-06	22	110	4.188+01	2.661-01	2.999-14	6.898-06
21	146	2.902+01	3.853+01	2.920-12	1.596-04	22	111	4.182+01	3.882-00	4.362-13	9.988-05

Table 5. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic quadrupole (M2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
22	112	4.178+01	2.035+01	3.805-12	8.690-04	23	95	4.264+01	4.307+03	1.957-09	2.036-01
22	114	4.081+01	1.080-00	1.156-13	2.460-05	23	98	4.261+01	9.045+03	5.744-09	5.964-01
22	120	4.021+01	2.286-00	5.540-13	1.128-04	23	99	4.260+01	3.328+03	1.509-09	1.565-01
22	121	4.020+01	1.369+02	3.317-11	6.748-03	23	100	4.260+01	4.403+03	2.794-09	2.898-01
22	122	4.020+01	1.330+02	4.143-11	8.429-03	23	110	4.257+01	1.540+01	4.182-12	4.329-04
22	123	4.019+01	7.711-04	1.334-16	2.713-08	23	111	4.250+01	4.298-00	1.164-12	1.199-04
22	132	3.716+01	2.337-00	2.073-13	3.330-05	23	112	4.246+01	3.984-00	1.795-12	1.845-04
22	133	3.715+01	6.468-00	9.559-13	1.535-04	23	114	4.146+01	1.412-00	3.637-13	3.479-05
22	134	3.714+01	1.198+01	2.477-12	3.973-04	23	120	4.084+01	2.036+02	1.188-10	1.086-02
22	135	3.694+01	2.297+01	3.357-12	5.299-04	23	121	4.083+01	1.677+03	9.783-10	8.939-02
22	140	3.014+01	4.428-01	2.585-14	2.217-06	23	123	4.083+01	1.035+03	4.311-10	3.937-02
22	146	2.910+01	5.077+01	2.762-12	2.131-04	23	132	3.769+01	6.434-01	1.371-13	9.853-06
22	147	2.909+01	4.988+01	4.522-12	3.488-04	23	133	3.769+01	1.922+01	6.820-12	4.900-04
22	148	2.909+01	1.088+01	1.380-12	1.064-04	23	134	3.767+01	5.212-00	2.588-12	1.857-04
22	149	2.903+01	1.347+02	1.216-11	9.317-04	23	135	3.747+01	1.874+01	6.577-12	4.645-04
22	154	2.881+01	4.135-01	5.146-14	3.854-06	23	140	3.050+01	1.355+01	1.889-12	7.191-05
22	155	2.881+01	2.661-04	4.257-17	3.188-09	23	146	2.943+01	2.946-02	3.825-15	1.308-07
22	156	2.881+01	8.199-00	1.603-12	1.200-04	23	147	2.942+01	3.539-00	7.656-13	2.618-05
22	157	2.881+01	1.873-00	2.997-13	2.244-05	23	148	2.942+01	2.921-00	8.844-13	3.022-05
23	28	2.532+02	3.052-02	2.933-13	6.388-03	23	149	2.936+01	1.289+01	2.776-12	9.429-05
23	34	9.792+01	5.195-00	7.466-12	9.406-03	23	154	2.913+01	5.095-00	1.513-12	5.020-05
23	35	9.781+01	3.235+01	7.732-11	9.709-02	24	28	2.817+02	3.145-03	2.245-14	1.123-03
23	36	9.761+01	6.542+01	2.180-10	2.721-01	24	29	2.449+02	5.994-04	1.078-15	3.541-05
23	37	9.383+01	2.209+01	4.861-11	5.389-02	24	34	1.019+02	2.675-00	2.499-12	5.915-03
23	40	7.024+01	5.960+02	4.407-10	2.050-01	24	35	1.018+02	7.893-00	1.226-11	2.893-02
23	43	6.988+01	2.307-01	2.815-13	1.289-04	24	36	1.016+02	5.544-01	1.200-12	2.814-03
23	44	6.962+01	1.099-00	1.864-12	8.443-04	24	37	9.750+01	1.729-00	2.464-12	5.108-03
23	45	6.946+01	1.871+02	1.353-10	6.087-02	24	40	7.227+01	6.329-00	2.973-12	2.510-03
23	46	6.923+01	2.304+02	2.759-10	1.229-01	24	43	7.189+01	3.109-02	2.409-14	2.002-05
23	48	6.532+01	4.671-00	2.987-12	1.117-03	24	44	7.161+01	1.782-00	1.918-12	1.576-03
23	49	6.491+01	1.397+01	8.827-12	3.240-03	24	45	7.145+01	8.564-01	3.932-13	3.208-04
23	50	6.483+01	2.513-00	2.639-12	9.654-04	24	46	7.121+01	5.878-00	4.468-12	3.608-03
23	60	6.137+01	1.303+03	7.356-10	2.281-01	24	47	6.964+01	2.594-01	3.772-14	2.849-05
23	63	6.133+01	6.649+03	6.248-09	1.934-00	24	48	6.707+01	2.680+01	1.084-11	7.318-03
23	64	6.122+01	9.500+03	1.246-08	3.836-00	24	49	6.664+01	1.733+01	6.923-12	4.584-03
23	65	6.121+01	3.502+03	3.278-09	1.009-00	24	50	6.656+01	5.015-00	3.331-12	2.197-03
23	66	6.120+01	8.253+03	1.081-08	3.325-00	24	56	6.539+01	1.351+02	1.732-11	1.083-02
23	72	5.769+01	3.513+02	4.090-10	1.054-01	24	60	6.291+01	4.964+01	1.767-11	9.844-03
23	74	5.763+01	2.206+03	2.563-09	6.584-01	24	61	6.291+01	1.020+02	1.089-10	6.067-02
23	75	5.763+01	1.440+03	1.195-09	3.069-01	24	63	6.287+01	1.261+01	7.475-12	4.155-03
23	78	4.456+01	7.519+02	2.238-10	2.658-02	24	64	6.276+01	4.967-01	4.107-13	2.271-04
23	79	4.448+01	9.800-02	4.846-14	5.724-06	24	65	6.274+01	1.754+02	1.036-10	5.721-02
23	80	4.443+01	1.072-00	7.404-13	8.715-05	24	66	6.273+01	1.774+01	1.465-11	8.090-03
23	81	4.440+01	2.189+02	6.467-11	7.596-03	24	67	6.271+01	3.159+02	3.353-10	1.849-01
23	82	4.435+01	2.852+02	1.402-10	1.641-02	24	72	5.906+01	7.125+03	5.215-09	2.402-00
23	94	4.266+01	9.599+02	2.619-10	2.728-02	24	73	5.902+01	1.286+04	1.209-08	5.559-00

Table 5. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic quadrupole (M2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
24	74	5.899+01	4.671+02	3.412-10	1.566-01	25	44	7.195+01	1.323+01	1.437-11	1.197-02
24	75	5.899+01	2.535+03	1.322-09	6.069-01	25	45	7.178+01	2.601-00	1.205-12	9.970-04
24	78	4.537+01	6.942-00	1.285-12	2.685-04	25	46	7.154+01	3.750+01	2.877-11	2.356-02
24	79	4.529+01	3.315-03	1.019-15	2.118-07	25	47	6.996+01	4.180+02	6.133-11	4.697-02
24	80	4.524+01	2.118-00	9.094-13	1.883-04	25	48	6.736+01	1.819+02	7.425-11	5.077-02
24	81	4.520+01	9.614-01	1.767-13	3.650-05	25	49	6.693+01	1.753+03	7.066-10	4.740-01
24	82	4.515+01	7.996-00	2.444-12	5.032-04	25	50	6.685+01	4.379+02	2.934-10	1.961-01
24	83	4.478+01	7.035-00	4.231-13	8.500-05	25	56	6.566+01	4.601+02	5.948-11	3.767-02
24	94	4.340+01	6.476+01	1.097-11	2.006-03	25	60	6.317+01	3.078+01	1.105-11	6.229-03
24	95	4.338+01	8.490-00	2.395-12	4.374-04	25	61	6.317+01	6.080-00	6.547-12	3.692-03
24	97	4.338+01	7.018+01	3.563-11	6.504-03	25	63	6.313+01	1.320+03	7.887-10	4.438-01
24	98	4.335+01	1.344-00	5.303-13	9.661-05	25	64	6.302+01	7.315+02	6.097-10	3.413-01
24	99	4.334+01	1.117+02	3.144-11	5.723-03	25	65	6.300+01	3.004+02	1.788-10	9.998-02
24	100	4.333+01	2.916+01	1.149-11	2.092-03	25	66	6.299+01	2.237+02	1.863-10	1.041-01
24	101	4.333+01	3.010+02	1.525-10	2.774-02	25	67	6.297+01	3.947+02	4.223-10	2.358-01
24	110	4.330+01	1.001+01	1.688-12	3.066-04	25	72	5.928+01	2.486+02	1.834-10	8.546-02
24	111	4.324+01	1.641+01	2.759-12	4.988-04	25	73	5.925+01	3.921+03	3.714-09	1.728-00
24	112	4.320+01	4.612-00	1.290-12	2.326-04	25	74	5.922+01	6.479+04	4.768-08	2.215+01
24	113	4.301+01	1.299+02	7.203-12	1.282-03	25	75	5.921+01	2.919+01	1.534-11	7.125-03
24	114	4.216+01	5.789-01	9.254-14	1.551-05	25	78	4.550+01	4.208-00	7.837-13	1.652-04
24	119	4.186+01	3.478-04	1.828-17	2.999-09	25	79	4.542+01	1.000+01	3.095-12	6.487-04
24	120	4.152+01	5.444+03	1.970-09	3.153-01	25	80	4.537+01	1.591+01	6.873-12	1.436-03
24	121	4.151+01	2.033+02	7.352-11	1.176-02	25	81	4.533+01	6.630-01	1.226-13	2.554-05
24	122	4.151+01	9.562+03	4.446-09	7.114-01	25	82	4.529+01	4.634+01	1.425-11	2.960-03
24	123	4.150+01	1.910+03	4.933-10	7.888-02	25	83	4.492+01	3.056+02	1.849-11	3.747-03
24	132	3.827+01	8.017-00	1.056-12	1.325-04	25	94	4.352+01	1.312+01	2.235-12	4.122-04
24	133	3.826+01	9.594-00	2.106-12	2.639-04	25	95	4.350+01	9.830+02	2.789-10	5.136-02
24	134	3.825+01	1.359-00	4.173-13	5.223-05	25	97	4.350+01	5.229-00	2.670-12	4.915-04
24	135	3.804+01	2.590-02	5.621-15	6.924-07	25	98	4.347+01	8.404+02	3.333-10	6.125-02
24	140	3.087+01	6.520-04	5.590-17	3.680-09	25	99	4.346+01	3.052+02	8.642-11	1.586-02
24	141	3.079+01	7.392-01	2.101-14	1.372-06	25	100	4.346+01	9.251+01	3.667-11	6.731-03
24	146	2.978+01	7.419+01	5.917-12	3.495-04	25	101	4.345+01	2.649+02	1.350-10	2.476-02
24	147	2.977+01	1.754+01	2.331-12	1.376-04	25	110	4.343+01	3.344+02	5.672-11	1.039-02
24	148	2.977+01	1.411-01	2.625-14	1.549-06	25	111	4.336+01	1.437+03	2.430-10	4.430-02
24	149	2.971+01	1.572-00	2.080-13	1.220-05	25	112	4.332+01	3.287+02	9.248-11	1.682-02
24	154	2.948+01	1.651-00	3.010-13	1.725-05	25	113	4.313+01	5.424+02	3.026-11	5.431-03
24	155	2.948+01	3.665-00	8.594-13	4.924-05	25	114	4.227+01	1.332+01	2.142-12	3.619-04
24	157	2.948+01	4.589-02	1.076-14	6.164-07	25	119	4.198+01	2.238+01	1.182-12	1.956-04
25	28	2.870+02	3.562-02	2.639-13	1.395-02	25	120	4.163+01	2.209-01	8.035-14	1.297-05
25	29	2.489+02	1.391-01	2.583-13	8.905-03	25	121	4.162+01	4.836+04	1.759-08	2.836-00
25	34	1.026+02	1.870-00	1.770-12	4.274-03	25	122	4.162+01	2.942+03	1.375-09	2.218-01
25	35	1.025+02	8.697-01	1.369-12	3.295-03	25	123	4.162+01	2.351+01	6.105-12	9.843-04
25	36	1.022+02	2.467-00	5.414-12	1.295-02	25	132	3.837+01	4.568-01	6.049-14	7.642-06
25	37	9.812+01	6.176-00	8.914-12	1.883-02	25	133	3.836+01	8.012-01	1.768-13	2.232-05
25	40	7.261+01	7.448-02	3.532-14	3.024-05	25	134	3.835+01	1.968+02	6.073-11	7.660-03
25	43	7.223+01	1.057+01	8.270-12	6.971-03	25	135	3.814+01	1.571+01	3.426-12	4.251-04

Table 5. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic quadrupole (M2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
25	140	3.094+01	4.469-00	3.848-13	2.548-05	26	101	4.354+01	2.189+02	7.995-11	2.066-02
25	141	3.085+01	1.673-00	4.774-14	3.136-06	26	110	4.351+01	5.270+02	6.410-11	1.654-02
25	146	2.983+01	1.669-00	1.336-13	7.937-06	26	111	4.344+01	5.874+02	7.123-11	1.829-02
25	147	2.983+01	1.844-00	2.460-13	1.461-05	26	112	4.340+01	1.716+03	3.461-10	8.864-02
25	148	2.983+01	3.629+01	6.778-12	4.023-04	26	114	4.235+01	4.621-00	5.326-13	1.267-04
25	149	2.977+01	1.930+01	2.564-12	1.513-04	26	120	4.171+01	1.062+01	2.770-12	6.294-04
25	154	2.953+01	5.820-01	1.066-13	6.140-06	26	121	4.170+01	7.995+03	2.084-09	4.734-01
25	155	2.953+01	3.565-01	8.391-14	4.835-06	26	122	4.170+01	5.267+04	1.766-08	4.010-00
25	157	2.953+01	5.545-00	1.305-12	7.518-05	26	123	4.169+01	1.104-01	2.056-14	4.666-06
26	28	2.908+02	1.504-02	8.172-14	6.291-03	26	132	3.844+01	2.105-01	1.998-14	3.553-06
26	34	1.031+02	1.287+01	8.782-12	3.011-02	26	133	3.843+01	1.096+01	1.734-12	3.080-04
26	35	1.029+02	2.873-00	3.261-12	1.114-02	26	134	3.841+01	3.820+01	8.450-12	1.500-03
26	36	1.027+02	7.325-00	1.159-11	3.934-02	26	135	3.821+01	1.904+01	2.976-12	5.197-04
26	37	9.856+01	9.467-01	9.847-13	2.952-03	26	140	3.098+01	1.605-01	9.900-15	9.218-07
26	40	7.285+01	6.416-00	2.187-12	2.648-03	26	146	2.988+01	6.790+01	3.894-12	3.252-04
26	43	7.247+01	1.111-02	6.248-15	7.446-06	26	147	2.987+01	2.439+02	2.331-11	1.946-03
26	44	7.219+01	2.583-00	2.018-12	2.377-03	26	148	2.987+01	6.182+01	8.268-12	6.900-04
26	45	7.201+01	1.782-00	5.939-13	6.945-04	26	149	2.981+01	2.430+02	2.312-11	1.918-03
26	46	7.177+01	9.388-01	5.178-13	5.995-04	26	154	2.957+01	4.777-01	6.264-14	5.074-06
26	48	6.757+01	7.078+02	2.076-10	2.006-01	26	155	2.957+01	2.337-01	3.940-14	3.191-06
26	49	6.714+01	4.932+02	1.428-10	1.354-01	26	156	2.957+01	2.231-00	4.597-13	3.723-05
26	50	6.706+01	1.874+03	9.021-10	8.517-01	26	157	2.957+01	4.651-01	7.840-14	6.349-06
26	60	6.335+01	3.092-00	7.974-13	6.350-04	27	28	3.538+02	2.335-03	4.383-14	2.605-03
26	61	6.335+01	1.750+01	1.354-11	1.078-02	27	34	1.100+02	5.646-03	1.025-14	1.831-05
26	62	6.335+01	1.599+01	1.512-11	1.203-02	27	35	1.099+02	9.030-01	2.724-12	4.850-03
26	63	6.331+01	4.371+01	1.876-11	1.490-02	27	36	1.096+02	1.574-00	6.618-12	1.170-02
26	64	6.320+01	2.777+02	1.663-10	1.314-01	27	37	1.049+02	3.376-00	9.280-12	1.437-02
26	65	6.318+01	1.360-01	5.813-14	4.591-05	27	40	7.625+01	2.490+02	2.170-10	1.292-01
26	66	6.317+01	9.688-01	5.796-13	4.575-04	27	43	7.584+01	1.211-00	1.740-12	1.019-03
26	67	6.315+01	1.393+02	1.071-10	8.440-02	27	44	7.553+01	2.154-01	4.298-13	2.485-04
26	72	5.944+01	9.900+01	5.244-11	3.449-02	27	45	7.534+01	7.470+01	6.357-11	3.648-02
26	73	5.941+01	7.068+04	4.809-08	3.158+01	27	46	7.507+01	1.312+02	1.847-10	1.049-01
26	74	5.938+01	1.062+04	5.614-09	3.680-00	27	48	7.049+01	4.350+01	3.240-11	1.523-02
26	75	5.937+01	1.568-01	5.919-14	3.879-05	27	49	7.002+01	1.213+01	8.914-12	4.106-03
26	78	4.560+01	4.405-00	5.885-13	1.747-04	27	50	6.993+01	2.511-00	3.068-12	1.408-03
26	79	4.552+01	5.349-01	1.187-13	3.504-05	27	60	6.591+01	3.680+01	2.397-11	9.210-03
26	80	4.546+01	2.840-00	8.799-13	2.589-04	27	63	6.586+01	3.333+03	3.613-09	1.385-00
26	81	4.543+01	2.710-00	3.593-13	1.055-04	27	64	6.574+01	2.653+03	4.012-09	1.530-00
26	82	4.538+01	1.306-00	2.879-13	8.426-05	27	65	6.573+01	1.777+03	1.918-09	7.307-01
26	94	4.361+01	1.886+01	2.305-12	5.985-04	27	66	6.571+01	1.188+03	1.795-09	6.836-01
26	95	4.359+01	1.118+02	2.274-11	5.897-03	27	72	6.169+01	1.425+03	1.897-09	5.977-01
26	96	4.358+01	1.013+01	4.534-12	1.175-03	27	74	6.162+01	5.862+03	7.785-09	2.444-00
26	97	4.358+01	2.179+01	7.978-12	2.068-03	27	75	6.161+01	4.186+03	3.971-09	1.247-00
26	98	4.356+01	1.353+02	3.847-11	9.956-03	27	78	4.691+01	5.014+02	1.654-10	2.292-02
26	99	4.354+01	1.809-00	3.674-13	9.498-05	27	79	4.682+01	2.486-00	1.362-12	1.876-04
26	100	4.354+01	1.837-00	5.220-13	1.349-04	27	80	4.676+01	2.189-01	1.674-13	2.298-05

Table 5. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic quadrupole (M2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
27	81	4.673+01	1.447+02	4.735-11	6.485-03	28	91	5.202+01	2.992-00	2.023-12	3.821-04
27	82	4.668+01	2.437+02	1.327-10	1.811-02	28	92	5.198+01	6.257-00	5.913-12	1.114-03
27	94	4.480+01	1.544+01	4.647-12	5.609-04	28	93	5.165+01	3.465+01	1.386-11	2.563-03
27	95	4.478+01	2.236+03	1.120-09	1.351-01	28	102	5.120+01	5.023-05	3.290-17	5.927-09
27	98	4.475+01	2.220+03	1.555-09	1.871-01	28	103	5.119+01	4.072-04	3.733-16	6.723-08
27	99	4.474+01	1.607+03	8.038-10	9.660-02	28	106	5.116+01	1.184-04	1.084-16	1.948-08
27	100	4.474+01	5.827+02	4.079-10	4.901-02	28	115	4.946+01	6.286-02	3.843-14	6.240-06
27	110	4.470+01	7.058+01	2.115-11	2.535-03	28	116	4.944+01	2.078+01	1.269-11	2.058-03
27	111	4.463+01	5.685-00	1.698-12	2.026-04	28	117	4.941+01	3.428-00	2.927-12	4.738-04
27	112	4.459+01	5.217-01	2.592-13	3.084-05	28	118	4.921+01	7.981-01	2.898-13	4.635-05
27	114	4.348+01	1.759+01	4.986-12	5.502-04	28	124	4.862+01	3.668-05	3.034-17	4.681-09
27	120	4.280+01	8.095+02	5.188-10	5.461-02	28	129	4.709+01	6.571+02	2.185-10	3.062-02
27	121	4.280+01	4.668+03	2.991-09	3.146-01	28	130	4.692+01	7.008+03	3.855-09	5.346-01
27	123	4.279+01	3.207+03	1.467-09	1.542-01	28	131	4.682+01	1.120+04	3.681-09	5.069-01
27	132	3.936+01	2.435-00	5.655-13	4.629-05	28	136	4.311+01	6.971-04	3.237-16	3.479-08
27	133	3.935+01	1.161-00	4.492-13	3.674-05	28	137	4.310+01	1.709-03	1.111-15	1.194-07
27	134	3.934+01	8.662+01	4.689-11	3.831-03	28	139	4.307+01	4.746-04	3.080-16	3.304-08
27	135	3.912+01	2.404+01	9.194-12	7.388-04	28	143	3.404+01	7.397+02	1.285-10	6.800-03
27	140	3.158+01	3.215+01	4.806-12	2.031-04	28	144	3.399+01	7.834+03	2.262-09	1.192-01
27	146	3.043+01	2.215-00	3.076-13	1.164-05	28	145	3.397+01	1.251+04	2.164-09	1.138-01
27	147	3.043+01	2.187-00	5.061-13	1.914-05	28	150	3.296+01	2.485-04	6.744-17	3.240-09
27	148	3.043+01	4.132+01	1.338-11	5.058-04	28	151	3.296+01	7.967-04	3.027-16	1.454-08
27	149	3.036+01	1.690+01	3.893-12	1.462-04	28	153	3.295+01	4.092-04	1.554-16	7.456-09
27	154	3.012+01	1.081-00	3.430-13	1.258-05	29	32	4.261+02	8.862-01	1.206-10	4.175-00
28	31	3.712+02	2.782-01	5.747-12	3.944-01	29	38	1.145+02	3.413-00	3.352-11	2.249-02
28	32	3.472+02	3.445-00	1.037-10	5.825-00	29	54	8.935+01	1.155+01	6.912-11	2.205-02
28	33	3.293+02	7.700-00	1.251-10	5.995-00	29	57	8.886+01	2.768-00	1.638-11	5.143-03
28	38	1.079+02	1.272-01	3.698-13	6.231-04	29	68	8.187+01	4.453-01	2.237-12	5.493-04
28	39	1.073+02	6.366-01	1.098-12	1.820-03	29	69	8.174+01	3.188-00	1.597-11	3.900-03
28	42	9.691+01	2.063-00	2.905-12	3.548-03	29	76	5.729+01	2.133+01	5.247-11	4.414-03
28	52	8.571+01	5.634-00	6.204-12	5.242-03	29	89	5.358+01	2.652+01	5.707-11	3.927-03
28	54	8.528+01	4.079-00	7.412-12	6.169-03	29	91	5.350+01	6.404-00	1.374-11	9.415-04
28	55	8.520+01	5.120-01	1.300-12	1.079-03	29	102	5.264+01	3.563-05	7.402-17	4.830-09
28	57	8.484+01	2.468-00	4.438-12	3.637-03	29	115	5.080+01	1.954-01	3.780-13	2.217-05
28	58	8.462+01	4.854-00	1.216-11	9.885-03	29	116	5.078+01	1.808+01	3.496-11	2.048-03
28	59	8.311+01	3.278+01	3.394-11	2.615-02	29	130	4.813+01	4.656+03	8.085-09	4.032-01
28	68	7.844+01	2.247-02	3.455-14	2.238-05	29	136	4.412+01	9.983-04	1.457-15	5.598-08
28	69	7.832+01	3.265+01	5.005-11	3.227-02	29	144	3.462+01	5.728+03	5.147-09	9.555-02
28	70	7.817+01	2.837-00	6.063-12	3.886-03	29	150	3.355+01	3.478-04	2.934-16	4.956-09
28	71	7.707+01	5.139-01	4.576-13	2.812-04	30	35	2.765+02	2.596-01	1.488-11	1.407-01
28	76	5.559+01	1.211-00	9.353-13	2.156-04	30	37	2.469+02	4.668-00	2.133-10	1.437-00
28	77	5.551+01	1.280-00	5.911-13	1.357-04	30	43	1.298+02	8.403-03	1.062-13	1.039-04
28	85	5.257+01	3.986-02	1.651-14	3.220-06	30	46	1.276+02	6.024-02	7.353-13	6.834-04
28	87	5.217+01	3.264-00	1.332-12	2.537-04	30	50	1.134+02	9.882-01	9.530-12	6.221-03
28	89	5.209+01	1.408-00	9.544-13	1.810-04	30	63	1.031+02	1.533-00	1.222-11	5.991-03
28	90	5.208+01	7.346-01	6.971-13	1.322-04	30	65	1.028+02	3.755-00	2.973-11	1.443-02

Table 5. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic quadrupole (M2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
30	75	9.306+01	4.828-02	3.134-13	1.130-04	31	121	5.603+01	1.430+01	1.571-11	3.709-03
30	79	6.300+01	6.994-02	2.081-13	2.328-05	31	123	5.602+01	4.693-00	3.680-12	8.683-04
30	82	6.274+01	3.504-01	1.034-12	1.142-04	31	132	5.029+01	7.288+02	2.763-10	4.717-02
30	95	5.937+01	3.004-00	7.936-12	7.428-04	31	133	5.028+01	4.610+03	2.912-09	4.966-01
30	99	5.928+01	4.917-00	1.295-11	1.207-03	31	134	5.025+01	2.887+03	2.551-09	4.344-01
30	112	5.903+01	8.892-01	2.322-12	2.136-04	31	135	4.990+01	3.230+03	2.010-09	3.350-01
30	123	5.591+01	1.099-01	2.576-13	2.014-05	31	140	3.825+01	2.944+02	6.456-11	4.848-03
30	133	5.019+01	3.984+02	7.522-10	4.253-02	31	146	3.658+01	7.886+02	1.582-10	1.039-02
30	135	4.981+01	3.212+03	5.973-09	3.302-01	31	147	3.657+01	4.951+03	1.655-09	1.086-01
30	147	3.653+01	4.230+02	4.231-10	9.222-03	31	148	3.657+01	3.162+03	1.479-09	9.707-02
30	149	3.643+01	3.627+03	3.608-09	7.801-02	31	149	3.648+01	3.620+03	1.203-09	7.838-02
31	34	2.802+02	5.580-01	6.567-12	1.938-01	31	154	3.613+01	5.032-04	2.298-16	1.454-08
31	35	2.793+02	3.095-00	6.034-11	1.764-00	32	34	2.956+02	5.368-04	4.220-15	2.438-04
31	36	2.777+02	2.050-00	5.530-11	1.589-00	32	35	2.946+02	1.790-00	2.330-11	1.333-00
31	37	2.492+02	4.500-00	6.981-11	1.449-00	32	36	2.928+02	1.432+01	2.578-10	1.448+01
31	40	1.317+02	1.188-01	3.087-13	9.462-04	32	37	2.613+02	6.378-00	6.529-11	2.606-00
31	43	1.304+02	1.085-02	4.615-14	1.375-04	32	40	1.350+02	1.370-02	2.246-14	1.236-04
31	44	1.295+02	2.598-01	1.525-12	4.448-03	32	43	1.337+02	2.638-02	7.070-14	3.780-04
31	45	1.290+02	1.938-01	4.834-13	1.392-03	32	44	1.327+02	7.075-04	2.617-15	1.369-05
31	46	1.282+02	1.999-01	8.208-13	2.321-03	32	45	1.322+02	1.239-00	1.947-12	1.005-02
31	48	1.154+02	2.782-02	5.553-14	1.145-04	32	46	1.313+02	8.120-01	2.100-12	1.064-02
31	49	1.141+02	1.999-00	3.905-12	7.792-03	32	47	1.261+02	6.654-00	3.173-12	1.423-02
31	50	1.139+02	2.261-01	7.329-13	1.453-03	32	48	1.179+02	1.452-02	1.817-14	6.663-05
31	60	1.036+02	2.469-00	3.973-12	5.931-03	32	49	1.166+02	4.887-02	5.979-14	2.121-04
31	63	1.035+02	9.457-00	2.531-11	3.765-02	32	50	1.164+02	1.469-01	2.983-13	1.051-03
31	64	1.032+02	7.301-01	2.720-12	4.012-03	32	56	1.128+02	4.581-00	1.748-12	5.615-03
31	65	1.032+02	1.270-00	3.376-12	4.972-03	32	60	1.057+02	5.946-02	5.970-14	1.575-04
31	66	1.031+02	1.369-00	5.092-12	7.495-03	32	61	1.057+02	4.658-03	1.403-14	3.701-05
31	72	9.355+01	5.119-01	1.567-12	1.722-03	32	63	1.055+02	1.106+01	1.846-11	4.852-02
31	74	9.338+01	5.546-00	1.692-11	1.849-02	32	64	1.052+02	1.553+01	3.609-11	9.406-02
31	75	9.337+01	2.271-00	4.948-12	5.406-03	32	65	1.052+02	1.998-00	3.314-12	8.625-03
31	78	6.330+01	4.845-00	2.910-12	9.907-04	32	66	1.052+02	1.992-00	4.623-12	1.202-02
31	79	6.315+01	4.210-01	4.194-13	1.417-04	32	67	1.051+02	1.051-00	3.131-12	8.124-03
31	80	6.304+01	7.881-02	1.096-13	3.683-05	32	72	9.521+01	1.239-03	2.358-15	4.551-06
31	81	6.297+01	2.021-00	1.202-12	4.027-04	32	73	9.513+01	8.546-01	2.087-12	4.018-03
31	82	6.288+01	7.401-03	7.312-15	2.440-06	32	74	9.504+01	4.547+01	8.621-11	1.655-01
31	94	5.953+01	5.226-00	2.776-12	7.860-04	32	75	9.503+01	1.680-02	2.275-14	4.367-05
31	95	5.949+01	2.119+01	1.875-11	5.298-03	32	78	6.406+01	2.050+01	7.567-12	4.449-03
31	98	5.943+01	3.508-00	4.334-12	1.221-03	32	79	6.390+01	1.187-02	7.268-15	4.241-06
31	99	5.941+01	2.204-00	1.944-12	5.471-04	32	80	6.379+01	3.448-00	2.945-12	1.710-03
31	100	5.941+01	1.096-00	1.353-12	3.808-04	32	81	6.372+01	1.562-01	5.706-14	3.302-05
31	110	5.935+01	9.335-01	4.929-13	1.383-04	32	82	6.363+01	2.909-00	1.766-12	1.017-03
31	111	5.922+01	3.335-03	1.753-15	4.889-07	32	83	6.290+01	4.041+01	4.793-12	2.668-03
31	112	5.915+01	1.861-03	1.628-15	4.521-07	32	94	6.020+01	1.133-02	3.693-15	1.802-06
31	114	5.722+01	2.777+02	1.363-10	3.427-02	32	95	6.016+01	2.277+01	1.235-11	6.018-03
31	120	5.605+01	1.054-01	1.158-13	2.737-05	32	97	6.015+01	6.681-03	6.523-15	3.175-06

Table 5. Transition energies ($\AA$), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic quadrupole (M2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
32	98	6.010+01	4.347+01	3.295-11	1.600-02	33	75	9.646+01	1.204-00	2.801-12	3.374-03
32	99	6.008+01	3.837-00	2.076-12	1.007-03	33	78	6.471+01	2.150+01	1.350-11	4.907-03
32	100	6.007+01	1.235-00	9.357-13	4.537-04	33	79	6.454+01	1.037-03	1.079-15	3.894-07
32	101	6.006+01	8.638-01	8.409-13	4.075-04	33	80	6.443+01	1.804-00	2.619-12	9.402-04
32	110	6.001+01	1.758+01	5.697-12	2.754-03	33	81	6.436+01	1.577-00	9.797-13	3.506-04
32	111	5.989+01	8.737+01	2.819-11	1.354-02	33	82	6.427+01	6.091-01	6.286-13	2.239-04
32	112	5.981+01	4.165-00	2.234-12	1.069-03	33	94	6.077+01	1.743-02	9.649-15	2.906-06
32	113	5.946+01	8.668+01	9.188-12	4.320-03	33	95	6.073+01	3.709+01	3.418-11	1.028-02
32	114	5.784+01	3.757+03	1.130-09	4.892-01	33	98	6.067+01	1.893+01	2.437-11	7.304-03
32	119	5.728+01	8.350+03	8.214-10	3.453-01	33	99	6.065+01	1.032+01	9.485-12	2.839-03
32	120	5.664+01	7.437-01	5.007-13	2.035-04	33	100	6.064+01	1.329-00	1.710-12	5.118-04
32	121	5.663+01	1.205+02	8.110-11	3.294-02	33	110	6.058+01	1.364+01	7.506-12	2.240-03
32	122	5.662+01	6.697-01	5.795-13	2.353-04	33	111	6.045+01	5.474+01	2.999-11	8.892-03
32	123	5.661+01	2.368-01	1.138-13	4.618-05	33	112	6.038+01	1.823-00	1.660-12	4.905-04
32	132	5.077+01	6.465-03	1.499-15	4.386-07	33	114	5.836+01	3.722+03	1.901-09	5.071-01
32	133	5.075+01	3.192+03	1.233-09	3.604-01	33	120	5.715+01	5.590-03	6.386-15	1.599-06
32	134	5.073+01	2.629+04	1.420-08	4.146-00	33	121	5.713+01	2.132+01	2.434-11	6.092-03
32	135	5.037+01	5.848+03	2.224-09	6.356-01	33	123	5.712+01	4.091-01	3.335-13	8.342-05
32	140	3.852+01	4.098+03	5.470-10	6.994-02	33	132	5.117+01	6.270+01	2.461-11	4.427-03
32	141	3.839+01	8.884+03	3.926-10	4.969-02	33	133	5.116+01	4.953+03	3.239-09	5.821-01
32	146	3.683+01	1.453-02	1.772-15	1.980-07	33	134	5.113+01	7.149+03	6.539-09	1.173-00
32	147	3.683+01	3.397+03	6.906-10	7.714-02	33	135	5.077+01	1.102+04	7.098-09	1.246-00
32	148	3.682+01	2.840+04	8.082-09	9.023-01	33	140	3.876+01	4.022+03	9.057-10	7.075-02
32	149	3.673+01	6.578+03	1.330-09	1.474-01	33	146	3.704+01	6.903+01	1.420-11	9.687-04
32	154	3.637+01	6.002-04	1.667-16	1.794-08	33	147	3.704+01	5.275+03	1.808-09	1.233-01
32	155	3.637+01	2.015-03	7.192-16	7.741-08	33	148	3.703+01	7.778+03	3.731-09	2.543-01
32	157	3.637+01	3.815-05	1.362-17	1.465-09	33	149	3.694+01	1.255+04	4.278-09	2.894-01
33	34	3.100+02	2.684-02	3.865-13	1.545-02	33	154	3.658+01	8.231-04	3.853-16	2.531-08
33	35	3.089+02	2.262-00	5.393-11	2.134-00	34	38	3.326+02	1.548-03	4.279-14	2.113-03
33	36	3.069+02	3.453-00	1.138-10	4.414-00	34	39	3.270+02	1.059-03	1.697-14	7.963-04
33	37	2.725+02	9.399-00	1.743-10	4.732-00	34	42	2.466+02	1.330-02	1.213-13	2.440-03
33	40	1.379+02	3.554-03	1.013-14	3.568-05	34	52	1.850+02	6.641-02	3.408-13	2.897-03
33	43	1.366+02	1.042-02	4.855-14	1.659-04	34	54	1.831+02	1.226-03	1.027-14	8.449-05
33	44	1.356+02	1.025-01	6.588-13	2.202-03	34	55	1.827+02	2.545-03	2.971-14	2.432-04
33	45	1.350+02	4.052-02	1.107-13	3.650-04	34	57	1.810+02	7.330-02	6.002-13	4.778-03
33	46	1.341+02	1.088-02	4.889-14	1.582-04	34	58	1.800+02	7.854-02	8.904-13	6.972-03
33	48	1.201+02	9.219-02	1.995-13	4.643-04	34	59	1.734+02	1.134-01	5.112-13	3.574-03
33	49	1.188+02	7.548-02	1.597-13	3.592-04	34	68	1.542+02	3.091-02	1.836-13	9.037-04
33	50	1.185+02	1.271-02	4.463-14	9.974-05	34	69	1.537+02	1.084-03	6.400-15	3.120-05
33	60	1.074+02	5.609-02	9.706-14	1.615-04	34	70	1.531+02	4.284-01	3.514-12	1.694-02
33	63	1.073+02	1.928+01	5.546-11	9.196-02	34	71	1.490+02	1.593-02	5.301-14	2.353-04
33	64	1.070+02	9.285-00	3.718-11	6.110-02	34	76	8.529+01	8.248-03	1.499-14	1.248-05
33	65	1.069+02	6.306-00	1.802-11	2.957-02	34	77	8.509+01	4.718-02	5.122-14	4.235-05
33	66	1.069+02	2.360-00	9.434-12	1.547-02	34	85	7.838+01	2.155-01	1.985-13	1.282-04
33	72	9.665+01	2.820-01	9.215-13	1.117-03	34	87	7.748+01	2.978-00	2.680-12	1.673-03
33	74	9.647+01	5.317-00	1.731-11	2.086-02	34	89	7.731+01	2.689-01	4.017-13	2.491-04

Table 5. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic quadrupole (M2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
34	90	7.730+01	1.690-01	3.532-13	2.189-04	35	88	7.743+01	9.581-02	1.550-13	1.610-04
34	91	7.715+01	1.204-00	1.792-12	1.104-03	35	89	7.738+01	1.278+01	1.147-11	1.189-02
34	92	7.707+01	4.953-03	1.029-14	6.321-06	35	90	7.736+01	2.657-01	3.338-13	3.457-04
34	93	7.635+01	1.143-00	9.993-13	5.968-04	35	91	7.722+01	2.812-03	2.514-15	2.589-06
34	102	7.537+01	3.380+01	4.798-11	2.757-02	35	92	7.713+01	1.256-00	1.568-12	1.609-03
34	103	7.536+01	2.171+01	4.313-11	2.477-02	35	93	7.641+01	1.266+01	6.652-12	6.639-03
34	106	7.528+01	2.028+01	4.020-11	2.302-02	35	102	7.543+01	1.165+01	9.943-12	9.547-03
34	115	7.166+01	2.002-02	2.569-14	1.269-05	35	103	7.542+01	1.533+02	1.831-10	1.757-01
34	116	7.162+01	4.023-03	5.155-15	2.541-06	35	106	7.535+01	1.713-01	2.041-13	1.953-04
34	117	7.154+01	8.940-02	1.601-13	7.868-05	35	107	7.534+01	3.656-01	5.600-13	5.357-04
34	118	7.114+01	1.207-02	9.157-15	4.425-06	35	108	7.531+01	2.704-00	4.138-12	3.954-03
34	124	6.992+01	1.415-00	2.419-12	1.109-03	35	115	7.172+01	5.795-01	4.468-13	3.687-04
34	129	6.679+01	4.348+01	2.908-11	1.163-02	35	116	7.167+01	1.392-01	1.072-13	8.826-05
34	130	6.646+01	8.552-02	9.438-14	3.717-05	35	117	7.160+01	2.408-01	2.591-13	2.128-04
34	131	6.624+01	2.307-00	1.518-12	5.919-04	35	118	7.120+01	6.804-01	3.103-13	2.505-04
34	136	5.905+01	6.055+03	5.275-09	1.458-00	35	124	6.997+01	1.456+01	1.496-11	1.147-02
34	137	5.904+01	4.232+02	5.160-10	1.425-01	35	125	6.996+01	8.270-00	1.092-11	8.367-03
34	139	5.899+01	1.042+04	1.269-08	3.495-00	35	126	6.995+01	1.581-00	2.088-12	1.598-03
34	143	4.326+01	3.752+01	1.053-11	1.144-03	35	128	6.689+01	7.814+01	1.049-11	7.021-03
34	144	4.319+01	1.688-02	7.868-15	8.506-07	35	129	6.684+01	3.218+02	1.293-10	8.637-02
34	145	4.314+01	2.201-00	6.143-13	6.621-05	35	130	6.650+01	1.614+02	1.070-10	7.039-02
34	150	4.153+01	4.576+03	1.972-09	1.896-01	35	131	6.629+01	4.566+02	1.805-10	1.176-01
34	151	4.153+01	3.517+02	2.122-10	2.040-02	35	136	5.909+01	1.601+03	8.381-10	3.867-01
34	153	4.151+01	7.852+03	4.733-09	4.544-01	35	137	5.908+01	2.400+04	1.758-08	8.109-00
35	38	3.338+02	1.587-03	2.652-14	2.207-03	35	138	5.906+01	1.705+03	1.605-09	7.396-01
35	39	3.282+02	8.471-04	8.206-15	6.486-04	35	139	5.903+01	1.588+04	1.162-08	5.343-00
35	41	2.489+02	6.963-02	1.293-13	4.461-03	35	142	4.329+01	8.475+01	4.762-12	8.643-04
35	42	2.473+02	9.559-03	5.257-14	1.778-03	35	143	4.328+01	3.164+02	5.331-11	9.668-03
35	51	1.866+02	7.224-02	7.545-14	1.097-03	35	144	4.321+01	1.471+02	4.118-11	7.431-03
35	52	1.854+02	2.921-01	9.031-13	1.288-02	35	145	4.317+01	4.105+02	6.880-11	1.238-02
35	53	1.839+02	1.500-01	1.369-12	1.904-02	35	150	4.155+01	1.226+03	3.172-10	5.089-02
35	54	1.834+02	6.902-01	3.481-12	4.804-02	35	151	4.155+01	1.842+04	6.675-09	1.071-00
35	55	1.831+02	5.953-07	4.187-18	5.747-08	35	152	4.154+01	1.250+03	5.820-10	9.334-02
35	57	1.814+02	1.437-04	7.087-16	9.461-06	35	153	4.153+01	1.150+04	4.164-09	6.672-01
35	58	1.804+02	3.634-03	2.482-14	3.258-04	36	38	3.362+02	6.839-04	8.278-15	9.849-04
35	59	1.737+02	4.912-01	1.333-12	1.562-02	36	39	3.305+02	3.545-02	2.487-13	2.811-02
35	68	1.545+02	2.647-02	9.469-14	7.807-04	36	42	2.486+02	2.415-05	9.586-17	4.610-06
35	69	1.540+02	3.525-01	1.253-12	1.024-02	36	52	1.861+02	1.120-02	2.494-14	5.037-04
35	70	1.534+02	7.459-01	3.684-12	2.974-02	36	53	1.846+02	5.489-01	3.606-12	7.104-02
35	71	1.492+02	3.056-03	6.123-15	4.553-05	36	54	1.841+02	2.162-01	7.850-13	1.535-02
35	76	8.537+01	2.413-01	2.636-13	3.668-04	36	55	1.838+02	4.440-02	2.249-13	4.371-03
35	77	8.517+01	1.502-01	9.801-14	1.354-04	36	57	1.821+02	3.221-02	1.143-13	2.162-03
35	84	7.852+01	2.098-02	3.879-15	4.199-06	36	58	1.811+02	1.711-00	8.410-12	1.563-01
35	85	7.844+01	1.480-00	8.190-13	8.843-04	36	59	1.743+02	5.071-01	9.901-13	1.643-02
35	86	7.766+01	5.984-01	1.082-13	1.133-04	36	68	1.550+02	7.582-02	1.950-13	2.273-03
35	87	7.755+01	1.130+01	6.112-12	6.375-03	36	69	1.545+02	2.385-00	6.097-12	7.040-02

Table 5. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic quadrupole (M2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
36	70	1.539+02	3.104-01	1.102-12	1.258-02	37	52	2.016+02	1.945-01	7.111-13	1.303-02
36	71	1.497+02	1.426-00	2.053-12	2.158-02	37	53	1.998+02	2.296-01	2.473-12	4.413-02
36	76	8.552+01	1.632-00	1.278-12	2.503-03	37	54	1.992+02	3.512-01	2.090-12	3.698-02
36	77	8.533+01	1.760-02	8.235-15	1.602-05	37	55	1.988+02	2.230-04	1.850-15	3.254-05
36	85	7.857+01	1.777-01	7.050-14	1.071-04	37	57	1.969+02	1.604-01	9.316-13	1.590-02
36	87	7.767+01	6.906-02	2.677-14	3.928-05	37	58	1.957+02	1.299-02	1.044-13	1.749-03
36	88	7.756+01	3.213-01	3.725-13	5.442-04	37	59	1.878+02	7.130-02	2.262-13	3.353-03
36	89	7.751+01	1.518+01	9.767-12	1.424-02	37	68	1.656+02	1.778-02	7.304-14	7.412-04
36	90	7.749+01	1.079-00	9.716-13	1.416-03	37	69	1.650+02	1.913-01	7.807-13	7.843-03
36	91	7.735+01	1.151-02	7.377-15	1.069-05	37	70	1.643+02	3.918-01	2.220-12	2.203-02
36	92	7.726+01	9.791-00	8.761-12	1.265-02	37	71	1.596+02	1.778-01	4.073-13	3.700-03
36	93	7.654+01	2.100+01	7.904-12	1.110-02	37	76	8.864+01	3.181-01	3.747-13	5.838-04
36	102	7.556+01	9.634-02	5.889-14	7.954-05	37	77	8.844+01	2.462-02	1.732-14	2.680-05
36	103	7.554+01	4.585+01	3.923-11	5.296-02	37	84	8.128+01	1.977-00	3.916-13	4.704-04
36	104	7.550+01	6.202-03	8.329-15	1.122-05	37	85	8.120+01	2.386-00	1.415-12	1.694-03
36	106	7.547+01	7.133-01	6.091-13	8.197-04	37	86	8.036+01	5.939-00	1.150-12	1.335-03
36	107	7.546+01	1.110+02	1.219-10	1.640-01	37	87	8.024+01	5.241-00	3.036-12	3.508-03
36	108	7.543+01	2.743-00	3.009-12	4.043-03	37	88	8.012+01	1.011-02	1.751-14	2.014-05
36	109	7.542+01	7.131-00	9.556-12	1.284-02	37	89	8.006+01	4.492-00	4.316-12	4.955-03
36	115	7.183+01	2.581-00	1.426-12	1.654-03	37	90	8.004+01	1.689-01	2.271-13	2.605-04
36	116	7.178+01	5.888+01	3.249-11	3.762-02	37	91	7.989+01	1.237-00	1.184-12	1.351-03
36	117	7.171+01	6.883-00	5.306-12	6.127-03	37	92	7.980+01	1.191-00	1.592-12	1.810-03
36	118	7.131+01	3.059+01	9.995-12	1.135-02	37	93	7.903+01	6.822-00	3.833-12	4.231-03
36	124	7.007+01	1.323-02	9.737-15	1.049-05	37	102	7.798+01	2.162-00	1.971-12	2.091-03
36	125	7.007+01	2.596+02	2.456-10	2.646-01	37	103	7.797+01	8.473+01	1.081-10	1.146-01
36	126	7.005+01	3.502-00	3.313-12	3.566-03	37	106	7.789+01	1.278+01	1.627-11	1.720-02
36	127	7.004+01	2.487-00	2.874-12	3.093-03	37	107	7.788+01	2.684+01	4.392-11	4.641-02
36	129	6.693+01	3.669+02	1.056-10	9.918-02	37	108	7.785+01	3.708-00	6.065-12	6.401-03
36	130	6.660+01	1.714+03	8.141-10	7.531-01	37	115	7.402+01	2.228-01	1.830-13	1.660-04
36	131	6.638+01	8.706+02	2.465-10	2.258-01	37	116	7.397+01	5.321-04	4.365-16	3.951-07
36	136	5.916+01	3.323-01	1.246-13	8.077-05	37	117	7.389+01	1.081-04	1.238-16	1.118-07
36	137	5.915+01	2.744+03	1.439-09	9.330-01	37	118	7.346+01	2.923-00	1.419-12	1.259-03
36	138	5.914+01	7.281+04	4.908-08	3.179+01	37	124	7.216+01	1.724+01	1.884-11	1.583-02
36	139	5.910+01	8.106+03	4.245-09	2.744-00	37	125	7.215+01	2.164+01	3.040-11	2.554-02
36	143	4.332+01	3.556+02	4.287-11	1.091-02	37	126	7.214+01	1.661-00	2.332-12	1.958-03
36	144	4.325+01	1.637+03	3.279-10	8.307-02	37	128	6.889+01	9.750+02	1.387-10	1.015-01
36	145	4.320+01	7.636+02	9.158-11	2.313-02	37	129	6.883+01	2.868+02	1.222-10	8.917-02
36	150	4.159+01	1.081-01	2.002-14	4.509-06	37	130	6.848+01	3.450+02	2.425-10	1.742-01
36	151	4.158+01	2.188+03	5.674-10	1.278-01	37	131	6.825+01	1.043+03	4.369-10	3.106-01
36	152	4.158+01	5.440+04	1.813-08	4.082-00	37	136	6.064+01	8.641+02	4.764-10	2.376-01
36	153	4.157+01	6.030+03	1.562-09	3.513-01	37	137	6.063+01	1.911+03	1.474-09	7.350-01
37	38	3.902+02	7.357-04	1.680-14	2.233-03	37	138	6.062+01	1.404+04	1.392-08	6.935-00
37	39	3.825+02	1.861-03	2.450-14	3.067-03	37	139	6.058+01	3.150+04	2.426-08	1.206+01
37	41	2.790+02	7.789-03	1.818-14	8.828-04	37	142	4.412+01	1.067+03	6.226-11	1.196-02
37	42	2.769+02	7.489-04	5.166-15	2.454-04	37	143	4.411+01	3.015+02	5.276-11	1.013-02
37	51	2.031+02	1.748-01	2.161-13	4.047-03	37	144	4.403+01	3.749+02	1.090-10	2.081-02

Table 5. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic quadrupole (M2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
37	145	4.399+01	1.182+03	2.057-10	3.916-02	38	121	8.873+01	3.487-01	5.762-13	9.003-04
37	150	4.231+01	6.565+02	1.762-10	2.985-02	38	122	8.872+01	1.205-02	2.559-14	3.998-05
37	151	4.231+01	1.660+03	6.236-10	1.056-01	38	123	8.870+01	7.078-03	8.348-15	1.303-05
37	152	4.231+01	1.068+04	5.158-09	8.737-01	38	132	7.514+01	1.701-01	8.639-14	8.198-05
37	153	4.229+01	2.367+04	8.886-09	1.503-00	38	133	7.511+01	4.523-00	3.826-12	3.626-03
38	40	9.824+02	3.099-02	2.690-12	5.704-00	38	134	7.506+01	2.430+01	2.873-11	2.717-02
38	43	9.174+02	1.302-04	1.643-14	2.839-02	38	135	7.427+01	3.048-00	2.521-12	2.309-03
38	44	8.741+02	8.909-02	1.429-11	2.135+01	38	140	5.110+01	2.116-00	4.971-13	1.484-04
38	45	8.496+02	1.665-01	1.081-11	1.483+01	38	141	5.087+01	7.122-00	5.526-13	1.627-04
38	46	8.167+02	2.106-01	2.105-11	2.565+01	38	146	4.816+01	1.522-02	3.177-15	7.939-07
38	47	6.492+02	8.675-01	1.096-11	6.711-00	38	147	4.816+01	2.136-00	7.427-13	1.855-04
38	48	4.783+02	7.403-03	1.524-13	3.729-02	38	148	4.815+01	1.510+01	7.346-12	1.834-03
38	49	4.575+02	1.228-02	2.313-13	4.954-02	38	149	4.799+01	3.140-00	1.084-12	2.679-04
38	50	4.537+02	7.860-08	2.426-18	5.068-07	38	154	4.738+01	2.384-06	1.124-18	2.674-10
38	56	4.041+02	1.217-00	5.961-12	8.798-01	38	155	4.738+01	3.238-06	1.962-18	4.668-10
38	60	3.251+02	5.026-07	4.780-18	3.676-07	38	157	4.738+01	3.351-06	2.030-18	4.829-10
38	61	3.251+02	1.343-06	3.831-17	2.945-06	39	40	1.035+03	2.763-03	4.436-13	6.600-01
38	63	3.240+02	6.608-04	1.040-14	7.907-04	39	43	9.631+02	2.513-05	5.824-15	6.982-03
38	64	3.211+02	1.272-03	2.754-14	2.040-03	39	44	9.155+02	1.046-01	3.066-11	3.157+01
38	65	3.207+02	5.735-05	8.842-16	6.521-05	39	45	8.886+02	1.571-02	1.860-12	1.752-00
38	66	3.204+02	2.728-04	5.876-15	4.323-04	39	46	8.527+02	7.130-02	1.295-11	1.078+01
38	67	3.198+02	3.598-04	9.927-15	7.259-04	39	48	4.905+02	1.464-03	5.281-14	8.362-03
38	72	2.431+02	5.542-06	6.873-17	2.208-06	39	49	4.686+02	1.905-02	6.271-13	8.661-02
38	73	2.426+02	2.896-04	4.598-15	1.467-04	39	50	4.646+02	3.591-03	1.937-13	2.607-02
38	74	2.420+02	6.694-03	8.225-14	2.606-03	39	60	3.307+02	5.250-04	8.608-15	4.179-04
38	75	2.419+02	1.285-04	1.127-15	3.570-05	39	63	3.295+02	5.097-03	1.383-13	6.637-03
38	78	1.084+02	9.150+01	9.679-11	2.761-01	39	64	3.265+02	7.380-03	2.753-13	1.286-02
38	79	1.080+02	5.960-01	1.042-12	2.935-03	39	65	3.261+02	3.332-03	8.851-14	4.118-03
38	80	1.077+02	1.815+02	4.416-10	1.233-00	39	66	3.258+02	5.225-03	1.940-13	9.002-03
38	81	1.075+02	2.722+02	2.829-10	7.857-01	39	72	2.462+02	1.722-03	3.650-14	7.308-04
38	82	1.072+02	3.100+02	5.343-10	1.473-00	39	74	2.450+02	7.748-03	1.627-13	3.213-03
38	83	1.052+02	3.385+02	1.123-10	2.920-01	39	75	2.450+02	5.518-03	8.274-14	1.633-03
38	94	9.782+01	4.445-03	3.826-15	8.010-06	39	78	1.091+02	2.557+01	4.560-11	7.936-02
38	95	9.773+01	1.728-01	2.475-13	5.167-04	39	79	1.086+02	2.627-01	7.742-13	1.331-03
38	97	9.770+01	2.828-04	7.285-16	1.520-06	39	80	1.083+02	2.817+02	1.155-09	1.968-00
38	98	9.757+01	2.359-01	4.712-13	9.789-04	39	81	1.081+02	3.731+01	6.535-11	1.107-01
38	99	9.750+01	3.546-02	5.054-14	1.048-04	39	82	1.078+02	1.378+02	4.003-10	6.732-01
38	100	9.749+01	1.879-02	3.748-14	7.768-05	39	94	9.832+01	1.229-01	1.780-13	2.270-04
38	101	9.746+01	4.862-02	1.246-13	2.581-04	39	95	9.822+01	1.886-01	4.547-13	5.783-04
38	110	9.734+01	2.908-00	2.479-12	5.113-03	39	98	9.806+01	4.663-01	1.569-12	1.985-03
38	111	9.700+01	1.273+01	1.077-11	2.199-02	39	99	9.800+01	1.736-01	4.165-13	5.260-04
38	112	9.681+01	2.186-08	3.071-20	6.232-11	39	100	9.799+01	2.433-01	8.171-13	1.032-03
38	113	9.588+01	1.597-00	4.403-13	8.681-04	39	110	9.783+01	1.192-00	1.711-12	2.150-03
38	114	9.174+01	7.174+02	5.430-10	9.377-01	39	111	9.749+01	5.342-00	7.612-12	9.467-03
38	119	9.035+01	1.161+03	2.842-10	4.687-01	39	112	9.729+01	1.156-01	2.734-13	3.380-04
38	120	8.876+01	4.813-04	7.959-16	1.245-06	39	114	9.217+01	6.034+02	7.685-10	8.077-01

Table 5. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic quadrupole (M2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
39	120	8.917+01	2.256-02	6.274-14	5.971-05	40	139	7.735+01	1.260-01	2.636-13	1.638-04
39	121	8.914+01	6.274-02	1.744-13	1.658-04	40	143	5.238+01	1.782-00	7.329-13	1.414-04
39	123	8.911+01	1.082-01	2.148-13	2.039-04	40	144	5.228+01	7.625-00	5.207-12	9.983-04
39	132	7.543+01	6.352-01	5.418-13	3.121-04	40	145	5.221+01	6.012-00	2.457-12	4.692-04
39	133	7.540+01	2.372-00	3.370-12	1.939-03	40	150	4.987+01	4.127-02	2.564-14	4.267-06
39	134	7.535+01	3.283-02	6.521-14	3.743-05	40	151	4.986+01	5.508-02	4.791-14	7.972-06
39	135	7.455+01	4.511-02	6.264-14	3.484-05	40	153	4.984+01	1.407-02	1.222-14	2.031-06
39	140	5.124+01	3.772-01	1.485-13	2.680-05	41	43	1.472+04	7.704-11	1.251-17	1.783-02
39	146	4.828+01	2.041-01	7.134-14	1.078-05	41	46	4.940+03	4.823-10	8.825-18	4.761-04
39	147	4.828+01	1.393-00	8.115-13	1.225-04	41	50	8.460+02	1.030-01	5.524-11	1.497+01
39	148	4.826+01	1.259-01	1.026-13	1.549-05	41	63	4.843+02	3.750-05	6.594-15	3.351-04
39	149	4.810+01	4.220-01	2.440-13	3.645-05	41	65	4.770+02	8.720-05	1.487-14	7.221-04
39	154	4.750+01	2.335-05	1.843-17	2.651-09	41	75	3.214+02	8.151-05	6.310-15	9.368-05
40	42	3.266+04	4.658-11	7.449-18	3.482-01	41	79	1.214+02	5.851-02	6.462-13	5.170-04
40	52	7.246+02	7.052-02	5.551-12	2.835-00	41	82	1.204+02	1.933-03	2.101-14	1.640-05
40	54	6.952+02	7.826-02	9.450-12	4.261-00	41	95	1.086+02	7.263-01	6.418-12	3.675-03
40	55	6.903+02	1.236-02	2.060-12	9.093-01	41	99	1.083+02	2.273-01	1.998-12	1.135-03
40	57	6.669+02	6.974-02	7.751-12	3.085-00	41	112	1.074+02	1.795+02	1.553-09	8.619-01
40	58	6.535+02	8.028-03	1.199-12	4.491-01	41	123	9.754+01	7.682-04	5.478-15	2.274-06
40	59	5.735+02	1.203-00	5.931-11	1.501+01	41	133	8.136+01	3.640-02	1.806-13	4.350-05
40	68	4.065+02	3.328-03	1.374-13	1.238-02	41	135	8.037+01	9.447-01	4.574-12	1.062-03
40	69	4.032+02	3.929-02	1.596-12	1.403-01	41	147	5.065+01	5.906-02	1.136-13	6.602-06
40	70	3.991+02	1.268-02	7.069-13	6.032-02	41	149	5.046+01	9.720-01	1.855-12	1.066-04
40	71	3.722+02	5.724-01	1.189-11	8.225-01	42	43	2.414+04	1.394-11	2.030-18	3.832-02
40	76	1.299+02	3.387+01	1.427-10	4.194-01	42	44	1.048+04	8.320-10	3.196-17	4.936-02
40	77	1.294+02	1.232+01	3.094-11	9.000-02	42	45	7.785+03	8.971-09	8.150-17	5.160-02
40	85	1.145+02	1.228+01	2.412-11	4.858-02	42	46	5.686+03	1.937-10	1.565-18	3.859-04
40	87	1.126+02	6.987+01	1.328-10	2.543-01	42	48	9.597+02	5.999-05	8.283-15	9.824-03
40	89	1.122+02	7.445+01	2.343-10	4.446-01	42	49	8.794+02	2.086-01	2.418-11	2.207+01
40	90	1.122+02	1.249+01	5.501-11	1.043-01	42	50	8.655+02	1.377-01	2.577-11	2.242+01
40	91	1.119+02	5.988+01	1.873-10	3.523-01	42	60	4.934+02	7.012-06	2.559-16	4.124-05
40	92	1.117+02	5.836-00	2.548-11	4.767-02	42	63	4.906+02	3.339-03	2.008-13	3.183-02
40	93	1.102+02	4.580+02	8.341-10	1.499-00	42	64	4.841+02	1.718-03	1.409-13	2.145-02
40	102	1.082+02	3.256-04	9.523-16	1.618-06	42	65	4.831+02	1.148-03	6.694-14	1.013-02
40	103	1.082+02	1.524-04	6.236-16	1.059-06	42	66	4.825+02	5.739-04	4.674-14	7.045-03
40	106	1.080+02	1.815-04	7.407-16	1.253-06	42	72	3.262+02	1.586-04	5.905-15	2.752-04
40	115	1.007+02	2.461-02	6.236-14	8.547-05	42	74	3.242+02	4.347-04	1.599-14	7.313-04
40	116	1.006+02	2.086-00	5.278-12	7.215-03	42	75	3.241+02	1.337-04	3.510-15	1.604-04
40	117	1.005+02	4.223-01	1.491-12	2.030-03	42	78	1.223+02	3.020-00	6.779-12	1.667-02
40	118	9.968+01	5.064-00	7.545-12	1.003-02	42	79	1.218+02	1.636-01	6.061-13	1.469-03
40	124	9.729+01	1.588-05	5.256-17	6.497-08	42	80	1.214+02	6.566-01	3.384-12	8.120-03
40	129	9.134+01	4.302+02	5.381-10	5.504-01	42	81	1.211+02	4.857-01	1.068-12	2.548-03
40	130	9.072+01	1.518+02	3.121-10	3.128-01	42	82	1.208+02	8.131-02	2.964-13	7.012-04
40	131	9.032+01	4.417+01	5.401-11	5.340-02	42	94	1.090+02	5.543-01	9.873-13	1.716-03
40	136	7.746+01	1.346-01	2.017-13	1.258-04	42	95	1.089+02	3.135-02	9.288-14	1.609-04
40	137	7.744+01	1.883-02	3.951-14	2.463-05	42	98	1.087+02	9.940-01	4.108-12	7.077-03

Table 5. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic quadrupole (M2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
42	99	1.086+02	1.330-00	3.920-12	6.738-03	43	107	1.088+02	3.625-02	1.159-13	3.342-04
42	100	1.086+02	1.373-01	5.663-13	9.733-04	43	108	1.088+02	1.684-02	5.379-14	1.549-04
42	110	1.084+02	4.616-00	8.133-12	1.390-02	43	115	1.014+02	4.813-03	7.425-15	1.733-05
42	111	1.080+02	4.468+02	7.811-10	1.320-00	43	116	1.013+02	4.850-01	7.469-13	1.739-03
42	112	1.078+02	2.745+02	7.961-10	1.336-00	43	117	1.012+02	4.744-01	1.020-12	2.365-03
42	114	1.015+02	6.626-00	1.023-11	1.436-02	43	118	1.004+02	9.465-01	8.583-13	1.943-03
42	120	9.787+01	4.849-03	1.625-14	2.044-05	43	124	9.798+01	4.850-02	9.772-14	2.056-04
42	121	9.783+01	1.961-02	6.567-14	8.252-05	43	125	9.796+01	1.556-02	4.030-14	8.474-05
42	123	9.779+01	9.643-03	2.304-14	2.892-05	43	126	9.794+01	6.388-03	1.653-14	3.474-05
42	132	8.157+01	6.215-01	6.198-13	4.514-04	43	128	9.205+01	1.219+03	3.097-10	5.403-01
42	133	8.153+01	2.856-00	4.744-12	3.450-03	43	129	9.195+01	6.010+02	4.570-10	7.947-01
42	134	8.147+01	7.375-02	1.712-13	1.242-04	43	130	9.132+01	1.036-00	1.295-12	2.206-03
42	135	8.054+01	4.686-00	7.595-12	5.325-03	43	131	9.091+01	3.540+01	2.632-11	4.422-02
42	140	5.399+01	1.552-01	6.782-14	1.433-05	43	136	7.789+01	1.879-00	1.709-12	1.807-03
42	146	5.072+01	1.899-01	7.325-14	1.283-05	43	137	7.788+01	7.051-00	8.976-12	9.484-03
42	147	5.072+01	1.580-00	1.015-12	1.778-04	43	138	7.785+01	5.455-00	8.922-12	9.416-03
42	148	5.071+01	3.785-02	3.404-14	5.955-06	43	139	7.779+01	7.672-03	9.743-15	1.026-05
42	149	5.053+01	2.443-00	1.558-12	2.698-04	43	142	5.260+01	4.451-03	3.692-16	1.201-07
42	154	4.986+01	1.419-05	1.234-17	2.053-09	43	143	5.258+01	1.052-01	2.616-14	8.506-06
43	51	7.859+02	1.312-02	2.429-13	2.638-01	43	144	5.247+01	2.584-02	1.067-14	3.447-06
43	52	7.645+02	2.240-02	1.178-12	1.177-00	43	145	5.241+01	2.820-01	6.968-14	2.243-05
43	53	7.395+02	1.449-01	2.138-11	1.934+01	43	150	5.005+01	9.550-02	3.586-14	1.005-05
43	54	7.318+02	4.760-02	3.822-12	3.351-00	43	151	5.004+01	4.876-01	2.563-13	7.185-05
43	55	7.264+02	1.211-02	1.341-12	1.150-00	43	152	5.004+01	2.580-00	1.743-12	4.885-04
43	57	7.006+02	1.488-04	1.095-14	8.420-03	43	153	5.002+01	2.377-01	1.248-13	3.494-05
43	58	6.858+02	1.046-01	1.032-11	7.445-00	44	52	7.975+02	1.943-03	7.939-14	1.261-01
43	59	5.982+02	2.044-03	6.579-14	3.150-02	44	53	7.702+02	4.309-01	4.928-11	7.051+01
43	68	4.188+02	2.860-05	7.518-16	1.235-04	44	54	7.619+02	7.392-02	4.596-12	6.366-00
43	69	4.152+02	2.189-02	5.658-13	9.060-02	44	55	7.560+02	1.058-03	9.067-14	1.227-01
43	70	4.109+02	5.798-03	2.055-13	3.190-02	44	57	7.281+02	2.899-02	1.646-12	1.990-00
43	71	3.824+02	5.938-03	7.812-14	9.774-03	44	58	7.121+02	4.096-01	3.114-11	3.522+01
43	76	1.311+02	2.447-01	6.303-13	3.175-03	44	59	6.181+02	1.714-02	4.208-13	3.112-01
43	77	1.306+02	3.849-01	5.909-13	2.946-03	44	68	4.284+02	1.979-03	3.890-14	9.580-03
43	84	1.156+02	7.070-01	2.833-13	9.790-04	44	69	4.248+02	1.157-02	2.235-13	5.362-02
43	85	1.154+02	4.731-01	5.671-13	1.951-03	44	70	4.203+02	2.021-03	5.352-14	1.244-02
43	86	1.137+02	3.478+01	1.349-11	4.441-02	44	71	3.905+02	1.228-03	1.203-14	2.244-03
43	87	1.135+02	3.313+01	3.839-11	1.256-01	44	76	1.320+02	1.364+02	2.545-10	1.834-00
43	88	1.133+02	2.079+02	7.196-10	2.338-00	44	77	1.316+02	3.520+02	3.914-10	2.791-00
43	89	1.132+02	6.437+01	1.236-10	4.004-01	44	85	1.162+02	1.779-00	1.542-12	7.571-03
43	90	1.131+02	1.535+01	4.122-11	1.335-01	44	87	1.142+02	4.715-00	3.951-12	1.843-02
43	91	1.128+02	1.092-01	2.083-13	6.689-04	44	88	1.140+02	7.563+02	1.893-09	8.773-00
43	92	1.126+02	1.004+02	2.673-10	8.540-01	44	89	1.138+02	1.180+02	1.637-10	7.566-01
43	93	1.111+02	2.026-00	2.249-12	6.898-03	44	90	1.138+02	1.614-00	3.134-12	1.446-02
43	102	1.090+02	1.435-02	2.557-14	7.416-05	44	91	1.135+02	3.979+01	5.489-11	2.513-01
43	103	1.090+02	1.122-02	2.799-14	8.110-05	44	92	1.133+02	4.720+02	9.084-10	4.139-00
43	106	1.089+02	1.781-02	4.430-14	1.278-04	44	93	1.118+02	1.744+01	1.400-11	6.119-02

Table 5. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic quadrupole (M2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
44	102	1.097+02	3.919-05	5.049-17	2.086-07	45	92	1.137+02	4.535+02	2.052-09	4.052-00
44	103	1.097+02	5.297-02	9.549-14	3.943-04	45	93	1.122+02	1.592+02	3.004-10	5.692-01
44	104	1.096+02	7.139-06	2.019-17	8.318-08	45	102	1.101+02	2.438-03	7.382-15	1.322-05
44	106	1.095+02	6.454-03	1.160-14	4.770-05	45	103	1.101+02	1.605-02	6.803-14	1.217-04
44	107	1.095+02	4.853-02	1.121-13	4.607-04	45	106	1.099+02	1.225-02	5.175-14	9.218-05
44	108	1.094+02	1.033-03	2.384-15	9.781-06	45	115	1.023+02	1.148-02	3.005-14	4.324-05
44	109	1.094+02	3.202-03	9.028-15	3.702-05	45	116	1.022+02	1.155-01	3.017-13	4.329-04
44	115	1.020+02	4.155-02	4.629-14	1.538-04	45	117	1.021+02	3.197-02	1.166-13	1.666-04
44	116	1.019+02	3.379-01	3.758-13	1.246-03	45	118	1.013+02	2.997-01	4.610-13	6.430-04
44	117	1.018+02	8.262-04	1.283-15	4.233-06	45	124	9.882+01	4.027-05	1.376-16	1.782-07
44	118	1.009+02	5.846-01	3.828-13	1.233-03	45	129	9.269+01	1.840+02	2.370-10	2.533-01
44	124	9.850+01	1.403-04	2.041-16	6.109-07	45	130	9.205+01	2.577+02	5.457-10	5.712-01
44	125	9.848+01	1.053-01	1.969-13	5.888-04	45	131	9.163+01	9.289-00	1.169-11	1.207-02
44	126	9.846+01	1.754-03	3.277-15	9.795-06	45	136	7.842+01	9.729-01	1.495-12	9.678-04
44	127	9.844+01	2.030-03	4.634-15	1.384-05	45	137	7.841+01	5.493-02	1.181-13	7.643-05
44	129	9.241+01	5.540+01	3.039-11	7.510-02	45	139	7.832+01	7.625-01	1.636-12	1.055-03
44	130	9.177+01	4.180+02	3.770-10	9.125-01	45	143	5.282+01	2.547-01	1.066-13	2.107-05
44	131	9.136+01	7.888+02	4.230-10	1.010-00	45	144	5.272+01	1.693-01	1.175-13	2.310-05
44	136	7.822+01	4.500-03	2.949-15	4.419-06	45	145	5.265+01	5.071-01	2.107-13	4.126-05
44	137	7.821+01	2.243-00	2.057-12	3.081-03	45	150	5.026+01	1.310-03	8.269-16	1.409-07
44	138	7.818+01	4.890+01	5.761-11	8.621-02	45	151	5.026+01	8.825-04	7.799-16	1.329-07
44	139	7.811+01	5.265-00	4.816-12	7.188-03	45	153	5.024+01	1.314-00	1.160-12	1.973-04
44	143	5.273+01	4.548-02	8.124-15	3.729-06	46	51	8.788+02	4.029-06	9.331-17	1.417-04
44	144	5.262+01	4.913-01	1.457-13	6.649-05	46	52	8.521+02	2.503-02	1.635-12	2.263-00
44	145	5.256+01	1.879-01	3.335-14	1.516-05	46	53	8.211+02	1.184-01	2.153-11	2.667+01
44	150	5.018+01	3.073-02	8.285-15	3.278-06	46	54	8.117+02	1.975-01	1.951-11	2.334+01
44	151	5.018+01	1.250-01	4.719-14	1.867-05	46	55	8.050+02	3.752-04	5.103-14	5.955-02
44	152	5.017+01	1.089+01	5.286-12	2.091-03	46	57	7.734+02	7.378-02	6.616-12	6.847-00
44	153	5.015+01	1.753-00	6.609-13	2.611-04	46	58	7.554+02	1.193-01	1.429-11	1.378+01
45	52	8.190+02	2.259-02	2.272-12	1.675-00	46	59	6.505+02	3.995-01	1.521-11	9.361-00
45	54	7.816+02	2.494-03	3.807-13	2.439-01	46	68	4.437+02	5.012-03	1.479-13	2.891-02
45	55	7.754+02	3.528-04	7.420-14	4.643-02	46	69	4.398+02	2.979-02	8.637-13	1.643-01
45	57	7.460+02	5.678-03	7.896-13	4.400-01	46	70	4.350+02	1.210-04	4.807-15	8.848-04
45	58	7.293+02	3.450-01	6.418-11	3.341+01	46	71	4.032+02	3.223-01	4.713-12	6.908-01
45	59	6.310+02	2.490-01	1.486-11	5.012-00	46	76	1.334+02	1.800+02	4.805-10	2.553-00
45	68	4.346+02	8.472-04	3.998-14	4.404-03	46	77	1.330+02	1.146+02	1.822-10	9.583-01
45	69	4.308+02	1.068-02	4.952-13	5.313-02	46	84	1.174+02	4.340-03	1.795-15	6.500-06
45	70	4.262+02	6.352-06	4.036-16	4.193-05	46	85	1.173+02	6.011-00	7.435-12	2.682-02
45	71	3.956+02	1.410-01	3.309-12	2.750-01	46	86	1.155+02	1.013-02	4.053-15	1.397-05
45	76	1.326+02	9.420+01	4.138-10	1.295-00	46	87	1.153+02	6.852+01	8.189-11	2.805-01
45	77	1.321+02	2.059+01	5.389-11	1.669-01	46	88	1.150+02	2.932+02	1.046-09	3.561-00
45	85	1.166+02	5.234-00	1.067-11	2.271-02	46	89	1.149+02	4.313+02	8.536-10	2.896-00
45	87	1.146+02	5.195+01	1.024-10	2.070-01	46	90	1.149+02	8.838-01	2.447-12	8.295-03
45	89	1.143+02	5.574-00	1.819-11	3.643-02	46	91	1.146+02	1.414+02	2.782-10	9.352-01
45	90	1.142+02	7.252-01	3.311-12	6.624-03	46	92	1.143+02	1.895+02	5.201-10	1.739-00
45	91	1.139+02	8.679-00	2.815-11	5.586-02	46	93	1.128+02	2.976+02	3.405-10	1.093-00

Table 5. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic quadrupole (M2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
46	102	1.107+02	3.117-03	5.723-15	1.735-05	48	58	2.185+03	1.609-06	2.687-15	3.764-02
46	103	1.106+02	1.453-01	3.734-13	1.131-03	48	59	1.490+03	1.302-07	4.334-17	1.924-04
46	106	1.105+02	3.074-02	7.875-14	2.375-04	48	68	7.208+02	1.083-02	1.406-12	7.065-01
46	107	1.105+02	3.696-02	1.217-13	3.668-04	48	69	7.104+02	6.080-02	7.667-12	3.688-00
46	108	1.104+02	9.607-03	3.160-14	9.509-05	48	70	6.979+02	1.854-01	3.158-11	1.441+01
46	115	1.028+02	1.414-01	2.242-13	5.456-04	48	71	6.195+02	4.814-02	2.770-12	8.840-01
46	116	1.028+02	1.507-00	2.386-12	5.789-03	48	76	1.509+02	2.700-01	1.536-12	7.078-03
46	117	1.026+02	5.860-03	1.295-14	3.129-05	48	77	1.503+02	1.068-01	3.616-13	1.647-03
46	118	1.018+02	3.055-00	2.847-12	6.713-03	48	85	1.305+02	1.988-01	5.077-13	1.515-03
46	124	9.929+01	1.653-02	3.420-14	7.487-05	48	87	1.281+02	3.815-02	9.379-14	2.643-04
46	125	9.927+01	2.809-03	7.469-15	1.634-05	48	89	1.276+02	8.544-02	3.476-13	9.691-04
46	126	9.925+01	2.260-03	6.008-15	1.314-05	48	90	1.276+02	8.255-02	4.698-13	1.308-03
46	128	9.321+01	4.426-00	1.153-12	2.088-03	48	91	1.272+02	1.059-02	4.280-14	1.181-04
46	129	9.310+01	1.338+01	1.043-11	1.882-02	48	92	1.269+02	7.556-01	4.258-12	1.168-02
46	130	9.245+01	3.992+02	5.116-10	9.043-01	48	93	1.250+02	2.088-01	4.892-13	1.282-03
46	131	9.203+01	2.801+02	2.134-10	3.721-01	48	102	1.224+02	4.839-06	1.811-17	4.457-08
46	136	7.872+01	1.184-01	1.100-13	1.200-04	48	103	1.224+02	9.152-03	4.794-14	1.179-04
46	137	7.870+01	4.427-01	5.755-13	6.276-04	48	106	1.222+02	9.448-04	4.932-15	1.207-05
46	138	7.868+01	2.033-00	3.397-12	3.700-03	48	115	1.129+02	1.618+01	5.152-11	9.950-02
46	139	7.861+01	6.776-00	8.788-12	9.547-03	48	116	1.128+02	6.824+01	2.169-10	4.177-01
46	142	5.297+01	2.644-01	2.224-14	7.394-06	48	117	1.126+02	1.945+02	8.628-10	1.654-00
46	143	5.295+01	4.356-02	1.099-14	3.649-06	48	118	1.116+02	2.635+01	4.922-11	9.186-02
46	144	5.285+01	2.290-03	9.586-16	3.165-07	48	124	1.086+02	4.769-03	1.968-14	3.386-05
46	145	5.278+01	3.188-02	7.988-15	2.627-06	48	129	1.013+02	3.001-01	4.613-13	6.430-04
46	150	5.038+01	2.066-01	7.864-14	2.250-05	48	130	1.005+02	6.942-02	1.752-13	2.387-04
46	151	5.038+01	4.094-02	2.181-14	6.239-06	48	131	1.000+02	9.501-01	1.425-12	1.912-03
46	152	5.038+01	3.036-00	2.079-12	5.946-04	48	136	8.448+01	2.114-00	3.769-12	3.049-03
46	153	5.036+01	7.465-01	3.973-13	1.135-04	48	137	8.446+01	1.371-02	3.421-14	2.766-05
47	54	1.092+03	1.986-02	1.773-11	1.032+01	48	139	8.435+01	3.051-00	7.594-12	6.117-03
47	57	1.023+03	9.096-03	7.141-12	3.424-00	48	143	5.550+01	2.705-02	1.249-14	2.865-06
47	68	5.160+02	1.979-03	3.950-13	2.429-02	48	144	5.538+01	2.932-01	2.247-13	5.123-05
47	69	5.107+02	1.114-01	2.178-11	1.298-00	48	145	5.531+01	2.451-01	1.124-13	2.552-05
47	76	1.393+02	5.133+01	7.468-10	9.032-01	48	150	5.268+01	2.185-02	1.515-14	2.973-06
47	89	1.192+02	2.268+02	2.416-09	1.832-00	48	151	5.268+01	2.638-01	2.561-13	5.026-05
47	91	1.188+02	7.732+01	8.186-10	6.147-01	48	153	5.265+01	4.241-01	4.113-13	8.058-05
47	102	1.147+02	1.784-05	1.759-16	1.186-07	49	52	4.710+03	1.368-07	4.551-16	6.381-02
47	115	1.063+02	6.227-01	5.274-12	2.834-03	49	54	3.693+03	5.605-07	1.910-15	1.291-01
47	116	1.062+02	1.200+01	1.015-10	5.436-02	49	55	3.559+03	1.893-07	8.384-16	5.071-02
47	130	9.523+01	1.130+02	7.684-10	2.969-01	49	57	3.014+03	2.375-07	5.391-16	1.981-02
47	136	8.072+01	1.331-02	6.504-14	1.530-05	49	58	2.758+03	6.542-07	1.741-15	4.902-02
47	144	5.374+01	1.372-00	2.970-12	2.062-04	49	59	1.736+03	8.520-05	3.848-14	2.700-01
47	150	5.120+01	1.683-01	3.308-13	1.986-05	49	68	7.738+02	5.397-04	8.074-14	5.019-02
48	52	3.254+03	1.122-08	1.782-17	8.234-04	49	69	7.618+02	4.447-01	6.448-11	3.826+01
48	54	2.734+03	4.606-07	8.601-16	2.358-02	49	70	7.475+02	9.543-02	1.865-11	1.045+01
48	55	2.659+03	4.551-07	1.126-15	2.841-02	49	71	6.583+02	1.405-03	9.128-14	3.495-02
48	57	2.343+03	2.219-08	3.044-17	5.254-04	49	76	1.531+02	4.003-01	2.343-12	1.128-02

Table 5. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic quadrupole (M2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
49	77	1.524+02	4.645-01	1.618-12	7.696-03	50	88	1.296+02	2.196-01	9.957-13	4.849-03
49	85	1.322+02	2.362+02	6.184-10	1.916-00	50	89	1.295+02	2.001-00	5.028-12	2.441-02
49	87	1.296+02	4.577-00	1.153-11	3.371-02	50	90	1.294+02	4.006-01	1.408-12	6.829-03
49	89	1.292+02	2.998-01	1.250-12	3.614-03	50	91	1.290+02	1.053-02	2.627-14	1.262-04
49	90	1.291+02	3.615-01	2.108-12	6.090-03	50	92	1.288+02	1.826-02	6.356-14	3.036-04
49	91	1.287+02	4.265-01	1.766-12	5.053-03	50	93	1.268+02	1.503-00	2.174-12	9.912-03
49	92	1.285+02	5.620-01	3.245-12	9.234-03	50	102	1.241+02	2.727-03	6.299-15	2.694-05
49	93	1.265+02	1.242+01	2.980-11	8.095-02	50	103	1.241+02	1.835-02	5.931-14	2.535-04
49	102	1.238+02	1.091-03	4.179-15	1.065-05	50	106	1.239+02	8.612-03	2.774-14	1.180-04
49	103	1.238+02	8.152-03	4.371-14	1.113-04	50	107	1.239+02	4.992-02	2.067-13	8.783-04
49	106	1.236+02	9.896-04	5.288-15	1.340-05	50	108	1.238+02	1.653-02	6.834-14	2.899-04
49	115	1.141+02	7.533-03	2.452-14	4.891-05	50	115	1.144+02	1.377-06	2.699-18	9.032-09
49	116	1.140+02	7.404+02	2.405-09	4.783-00	50	116	1.142+02	3.160+02	6.184-10	2.063-00
49	117	1.138+02	1.435+02	6.503-10	1.287-00	50	117	1.141+02	9.025+02	2.465-09	8.184-00
49	118	1.128+02	2.704-01	5.160-13	9.943-04	50	118	1.131+02	2.651-02	3.048-14	9.849-05
49	124	1.098+02	1.973-03	8.316-15	1.476-05	50	124	1.100+02	4.374-02	1.110-13	3.304-04
49	129	1.022+02	8.484-01	1.330-12	1.908-03	50	125	1.100+02	7.036-03	2.296-14	6.828-05
49	130	1.015+02	1.872-01	4.816-13	6.752-04	50	126	1.099+02	1.663-03	5.422-15	1.611-05
49	131	1.010+02	5.506-00	8.414-12	1.162-02	50	128	1.026+02	1.098-01	3.465-14	8.363-05
49	136	8.516+01	1.449-01	2.626-13	2.176-04	50	129	1.024+02	7.724-02	7.291-14	1.753-04
49	137	8.514+01	3.217-03	8.158-15	6.758-06	50	130	1.017+02	7.105-01	1.101-12	2.587-03
49	139	8.503+01	1.979-01	5.006-13	4.131-04	50	131	1.012+02	2.293-00	2.110-12	4.885-03
49	143	5.579+01	6.922-02	3.230-14	7.529-06	50	136	8.529+01	9.198-02	1.003-13	1.392-04
49	144	5.567+01	1.656-00	1.283-12	2.970-04	50	137	8.528+01	5.162-00	7.879-12	1.093-02
49	145	5.560+01	1.125-00	5.211-13	1.202-04	50	138	8.525+01	9.363-01	1.836-12	2.544-03
49	150	5.295+01	1.517-01	1.062-13	2.117-05	50	139	8.517+01	1.310+01	1.995-11	2.756-02
49	151	5.295+01	2.846-01	2.791-13	5.560-05	50	142	5.587+01	3.516-02	3.291-15	1.283-06
49	153	5.292+01	3.412-01	3.342-13	6.647-05	50	143	5.585+01	3.846-02	1.079-14	4.205-06
50	51	6.315+03	3.516-09	4.204-18	2.368-03	50	144	5.573+01	2.523-02	1.175-14	4.549-06
50	52	5.156+03	1.906-08	4.558-17	1.397-02	50	145	5.566+01	7.062-02	1.968-14	7.588-06
50	53	4.196+03	1.347-08	6.401-17	1.058-02	50	150	5.300+01	4.972-02	2.094-14	6.972-06
50	54	3.962+03	5.958-07	1.402-15	1.950-01	50	151	5.300+01	1.246-00	7.346-13	2.446-04
50	55	3.807+03	2.681-07	8.156-16	1.007-01	50	152	5.299+01	2.028-03	1.537-15	5.115-07
50	57	3.191+03	1.348-09	2.057-18	1.495-04	50	153	5.297+01	1.335-00	7.862-13	2.613-04
50	58	2.905+03	1.263-09	2.237-18	1.227-04	51	63	1.380+03	3.039-04	4.342-13	5.109-01
50	59	1.793+03	6.857-06	1.982-15	2.555-02	51	65	1.322+03	3.522-03	4.618-12	4.779-00
50	68	7.849+02	2.737-04	2.528-14	2.734-02	51	75	5.645+02	8.850-05	2.114-14	1.702-03
50	69	7.726+02	1.754-01	1.569-11	1.619+01	51	79	1.450+02	9.964-01	1.570-11	2.139-02
50	70	7.579+02	5.590-01	6.739-11	6.562+01	51	82	1.436+02	3.195-04	4.938-15	6.538-06
50	71	6.663+02	2.617-04	1.045-14	6.917-03	51	95	1.271+02	1.467+01	1.775-10	1.629-01
50	76	1.535+02	7.369-04	2.603-15	2.106-05	51	99	1.267+02	2.442+02	2.937-09	2.671-00
50	77	1.529+02	8.274-02	1.740-13	1.390-03	51	112	1.255+02	2.668-02	3.151-13	2.787-04
50	84	1.327+02	5.027+02	2.654-10	1.387-00	51	123	1.122+02	8.138-02	7.681-13	4.854-04
50	85	1.325+02	2.471+02	3.901-10	2.029-00	51	133	9.131+01	9.165+01	5.728-10	1.951-01
50	86	1.302+02	2.830-00	1.439-12	7.115-03	51	135	9.007+01	4.356+01	2.649-10	8.658-02
50	87	1.299+02	1.694-00	2.572-12	1.262-02	51	147	5.434+01	2.306-01	5.104-13	3.663-05

Table 5. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic quadrupole (M2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
51	149	5.412+01	2.202-03	4.834-15	3.428-07	53	75	5.912+02	2.012-06	5.857-17	4.873-05
52	60	1.476+03	1.393-03	4.549-13	1.963-00	53	79	1.467+02	5.720+01	1.025-10	1.302-00
52	63	1.452+03	5.662-03	2.982-12	1.224+01	53	80	1.461+02	1.380+02	3.435-10	4.312-00
52	64	1.396+03	1.267-04	8.641-14	3.158-01	53	82	1.452+02	7.384+01	1.297-10	1.601-00
52	65	1.388+03	2.602-03	1.252-12	4.494-00	53	95	1.284+02	2.372-00	3.255-12	2.772-02
52	66	1.383+03	1.033-03	6.909-13	2.451-00	53	96	1.283+02	2.312+03	6.975-09	5.934+01
52	72	5.828+02	7.928-04	9.420-14	2.502-02	53	97	1.283+02	1.258+01	3.106-11	2.642-01
52	74	5.764+02	1.877-03	2.181-13	5.607-02	53	98	1.281+02	1.055+02	2.018-10	1.708-00
52	75	5.761+02	1.156-03	9.587-14	2.460-02	53	99	1.280+02	2.048-00	2.794-12	2.358-02
52	78	1.466+02	1.350+01	4.348-11	1.837-01	53	100	1.280+02	1.859+01	3.550-11	2.995-01
52	79	1.457+02	2.397-00	1.272-11	5.281-02	53	101	1.279+02	7.636+02	1.873-09	1.578+01
52	80	1.451+02	3.804-01	2.803-12	1.151-02	53	112	1.268+02	1.683-01	2.253-13	1.849-03
52	81	1.448+02	7.532-00	2.368-11	9.647-02	53	120	1.133+02	7.961-04	1.192-15	6.988-06
52	82	1.443+02	6.446-00	3.355-11	1.353-01	53	121	1.133+02	3.371-02	5.043-14	2.952-04
52	94	1.278+02	1.514+02	3.707-10	1.038-00	53	122	1.133+02	9.794-02	1.884-13	1.102-03
52	95	1.276+02	5.395+02	2.196-09	6.130-00	53	123	1.132+02	5.833-03	6.228-15	3.640-05
52	98	1.274+02	4.012-00	2.277-11	6.313-02	53	133	9.198+01	2.499+02	1.761-10	5.517-01
52	99	1.272+02	2.804+02	1.135-09	3.138-00	53	134	9.190+01	2.418+02	2.381-10	7.440-01
52	100	1.272+02	9.236+01	5.231-10	1.446-00	53	135	9.072+01	5.522+02	3.785-10	1.138-00
52	110	1.270+02	4.469-00	1.080-11	2.968-02	53	147	5.458+01	1.017-00	2.522-13	1.651-04
52	111	1.264+02	1.562-00	3.742-12	1.014-02	53	148	5.456+01	2.875+01	9.979-12	6.525-03
52	112	1.261+02	1.069-00	4.246-12	1.142-02	53	149	5.436+01	2.178+01	5.360-12	3.466-03
52	114	1.176+02	2.463-01	5.108-13	1.115-03	53	154	5.358+01	1.365-02	4.571-15	2.831-06
52	120	1.128+02	4.859-01	2.161-12	4.159-03	53	155	5.358+01	1.899-01	8.176-14	5.065-05
52	121	1.127+02	2.528-00	1.123-11	2.159-02	53	156	5.358+01	5.880-00	3.093-12	1.916-03
52	123	1.127+02	1.515-00	4.805-12	9.221-03	53	157	5.358+01	3.919-01	1.687-13	1.045-04
52	132	9.165+01	6.148+01	7.742-11	8.000-02	54	56	5.506+04	5.302-11	4.820-18	1.799-00
52	133	9.161+01	1.471+02	3.085-10	3.183-01	54	60	1.615+03	1.424-04	3.342-14	3.151-01
52	134	9.153+01	5.434+01	1.592-10	1.639-01	54	61	1.615+03	3.248-05	2.286-14	2.153-01
52	135	9.036+01	1.353+02	2.761-10	2.733-01	54	63	1.586+03	6.002-03	2.265-12	2.022+01
52	140	5.824+01	1.517-05	7.714-18	2.045-09	54	64	1.520+03	6.762-03	3.282-12	2.581+01
52	146	5.445+01	8.821-03	3.921-15	8.496-07	54	65	1.510+03	1.519-03	5.196-13	4.005-00
52	147	5.444+01	8.542-01	6.327-13	1.370-04	54	66	1.504+03	1.512-03	7.181-13	5.468-00
52	148	5.443+01	1.306-01	1.354-13	2.929-05	54	67	1.490+03	1.857-03	1.113-12	8.242-00
52	149	5.422+01	1.329-02	9.766-15	2.090-06	54	72	6.033+02	1.476-04	1.128-14	5.540-03
52	154	5.346+01	1.312-01	1.312-13	2.689-05	54	73	6.001+02	1.631-03	1.585-13	7.664-02
53	61	1.579+03	1.045-04	3.904-14	6.186-01	54	74	5.965+02	9.306-03	6.951-13	3.300-01
53	62	1.576+03	1.465-02	6.662-12	1.049+02	54	75	5.962+02	2.375-06	1.266-16	5.998-05
53	63	1.552+03	2.216-05	4.443-15	6.683-02	54	78	1.478+02	1.933+01	3.798-11	2.744-01
53	64	1.489+03	7.553-04	1.951-13	2.592-00	54	79	1.470+02	1.055+01	3.415-11	2.425-01
53	65	1.479+03	1.291-05	2.351-15	3.062-02	54	80	1.464+02	9.999-00	4.497-11	3.156-01
53	66	1.473+03	2.824-04	7.146-14	9.195-01	54	81	1.460+02	1.749-00	3.355-12	2.337-02
53	67	1.460+03	7.075-03	2.260-12	2.830+01	54	82	1.456+02	6.564+01	2.084-10	1.438-00
53	72	5.982+02	8.667-06	3.617-16	3.118-04	54	83	1.418+02	1.454+02	8.761-11	5.585-01
53	73	5.950+02	4.339-04	2.303-14	1.954-02	54	94	1.288+02	2.372+01	3.537-11	1.689-01
53	74	5.915+02	3.515-05	1.434-15	1.196-03	54	95	1.286+02	8.951+02	2.219-09	1.056+01

Table 5. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic quadrupole (M2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
54	97	1.286+02	7.278-00	3.246-11	1.542-01	55	95	1.288+02	3.989+01	7.083-11	4.736-01
54	98	1.283+02	9.951+02	3.439-09	1.625+01	55	96	1.287+02	3.505+02	1.368-09	9.140-00
54	99	1.282+02	2.690+02	6.628-10	3.124-00	55	97	1.287+02	1.746+02	5.577-10	3.725-00
54	100	1.282+02	9.118+01	3.145-10	1.482-00	55	98	1.285+02	1.185+02	2.933-10	1.948-00
54	101	1.281+02	2.205+02	9.772-10	4.598-00	55	99	1.284+02	1.624+01	2.866-11	1.899-01
54	110	1.279+02	3.771-01	5.551-13	2.599-03	55	100	1.284+02	6.995+01	1.728-10	1.145-00
54	111	1.273+02	6.571-01	9.585-13	4.428-03	55	101	1.283+02	2.148+02	6.815-10	4.507-00
54	112	1.270+02	5.765-00	1.394-11	6.390-02	55	110	1.281+02	1.693-01	1.785-13	1.175-03
54	113	1.254+02	2.878-00	1.357-12	5.990-03	55	111	1.275+02	5.663-03	5.916-15	3.841-05
54	114	1.184+02	5.699-01	7.189-13	2.670-03	55	112	1.272+02	6.217-01	1.077-12	6.936-03
54	119	1.161+02	2.976-01	1.203-13	4.213-04	55	114	1.186+02	6.633-03	5.991-15	3.127-05
54	120	1.135+02	5.205-03	1.408-14	4.605-05	55	120	1.137+02	1.568-02	3.037-14	1.396-04
54	121	1.135+02	1.750+01	4.727-11	1.544-01	55	121	1.136+02	1.330-00	2.572-12	1.181-02
54	122	1.134+02	1.566-00	5.438-12	1.776-02	55	122	1.136+02	4.506-00	1.120-11	5.141-02
54	123	1.134+02	6.088-05	1.174-16	3.829-07	55	123	1.135+02	3.999-02	5.521-14	2.530-04
54	132	9.215+01	8.064+01	6.159-11	1.078-01	55	132	9.223+01	8.583+02	4.691-10	1.153-00
54	133	9.210+01	2.359-00	3.000-12	5.243-03	55	133	9.219+01	1.949+02	1.773-10	4.351-01
54	134	9.202+01	2.689+02	4.779-10	8.329-01	55	134	9.211+01	5.673-01	7.215-13	1.766-03
54	135	9.084+01	2.058+02	2.546-10	4.268-01	55	135	9.092+01	1.550+02	1.372-10	3.230-01
54	140	5.843+01	4.086-02	1.255-14	5.600-06	55	140	5.847+01	3.732-02	8.197-15	5.131-06
54	141	5.813+01	3.489-00	3.536-13	1.554-04	55	146	5.466+01	1.444-01	2.772-14	1.417-05
54	146	5.462+01	8.740-03	2.346-15	8.553-07	55	147	5.465+01	3.386-00	1.083-12	5.534-04
54	147	5.462+01	4.105-01	1.836-13	6.690-05	55	148	5.463+01	1.969-01	8.813-14	4.500-05
54	148	5.460+01	9.506-01	5.949-13	2.166-04	55	149	5.443+01	2.024-01	6.420-14	3.242-05
54	149	5.440+01	3.950-03	1.753-15	6.310-07	55	154	5.365+01	4.541-01	1.960-13	9.479-05
54	154	5.362+01	1.229-01	7.416-14	2.558-05	55	155	5.365+01	3.393-00	1.883-12	9.107-04
54	155	5.362+01	3.036-02	2.356-14	8.126-06	55	156	5.365+01	2.557-01	1.734-13	8.385-05
54	157	5.362+01	4.037-01	3.132-13	1.080-04	55	157	5.365+01	4.094-03	2.271-15	1.098-06
55	60	1.642+03	3.096-05	5.367-15	7.448-02	56	57	2.335+04	1.615-10	6.600-17	3.758-01
55	61	1.642+03	8.591-04	4.465-13	6.189-00	56	68	9.965+02	2.142-03	1.594-12	7.058-01
55	62	1.638+03	1.821-03	1.152-12	1.586+01	56	69	9.768+02	1.542-02	1.103-11	4.600-00
55	63	1.613+03	1.972-04	5.492-14	7.211-01	56	76	1.601+02	6.977-00	1.341-10	2.465-01
55	64	1.545+03	9.969-04	3.566-13	4.114-00	56	89	1.342+02	3.810+01	5.141-10	5.555-01
55	65	1.534+03	1.433-04	3.611-14	4.083-01	56	91	1.337+02	1.048+01	1.404-10	1.501-01
55	66	1.528+03	3.417-04	1.196-13	1.335-00	56	102	1.284+02	9.881-04	1.222-14	1.158-05
55	67	1.514+03	1.739-03	7.678-13	8.336-00	56	115	1.180+02	1.116+01	1.165-10	8.569-02
55	72	6.071+02	9.026-05	4.987-15	3.494-03	56	116	1.179+02	1.084+02	1.129-09	8.279-01
55	73	6.038+02	2.683-03	1.885-13	1.300-01	56	130	1.045+02	1.024+01	8.385-11	4.285-02
55	74	6.002+02	1.293-03	6.985-14	4.730-02	56	136	8.731+01	4.775-03	2.729-14	8.124-06
55	75	5.998+02	1.314-05	5.064-16	3.423-04	56	144	5.658+01	8.870-01	2.129-12	1.726-04
55	78	1.480+02	4.608-00	6.489-12	6.593-02	56	150	5.377+01	7.134-02	1.546-13	1.075-05
55	79	1.472+02	2.769-00	6.424-12	6.415-02	57	60	1.792+03	2.766-04	7.989-14	1.028-00
55	80	1.466+02	2.983-01	9.614-13	9.488-03	57	61	1.791+03	4.918-04	4.259-13	5.475-00
55	81	1.463+02	3.740-01	5.140-13	5.035-03	57	63	1.756+03	2.613-05	1.209-14	1.465-01
55	82	1.458+02	2.116-01	4.815-13	4.670-03	57	64	1.676+03	1.927-06	1.136-15	1.196-02
55	94	1.289+02	4.429-00	4.730-12	3.174-02	57	65	1.664+03	1.170-03	4.858-13	5.004-00

Table 5. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic quadrupole (M2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
57	66	1.656+03	2.488-04	1.433-13	1.456-00	58	64	1.767+03	2.760-03	1.292-12	2.233+01
57	67	1.640+03	3.471-03	2.518-12	2.482+01	58	65	1.754+03	2.699-04	8.887-14	1.501-00
57	72	6.264+02	2.235-04	1.840-14	1.012-02	58	66	1.745+03	1.170-03	5.343-13	8.895-00
57	73	6.229+02	1.029-04	1.077-14	5.823-03	58	67	1.727+03	4.945-03	2.842-12	4.581+01
57	74	6.191+02	1.093-04	8.788-15	4.663-03	58	72	6.387+02	6.024-05	3.685-15	3.006-03
57	75	6.187+02	4.063-04	2.332-14	1.235-02	58	73	6.351+02	6.841-06	5.319-16	4.266-04
57	78	1.492+02	1.519+01	3.039-11	2.256-01	58	74	6.311+02	1.228-03	7.330-14	5.769-02
57	79	1.483+02	1.068-01	3.521-13	2.569-03	58	75	6.307+02	2.532-07	1.079-17	8.475-06
57	80	1.477+02	3.792-00	1.737-11	1.252-01	58	78	1.499+02	2.839-00	4.095-12	4.315-02
57	81	1.474+02	2.330-00	4.551-12	3.257-02	58	79	1.490+02	2.132+01	5.068-11	5.248-01
57	82	1.469+02	1.975+01	6.385-11	4.522-01	58	80	1.484+02	7.899+01	2.607-10	2.668-00
57	83	1.430+02	4.836+01	2.966-11	1.941-01	58	81	1.480+02	1.622+02	2.284-10	2.320-00
57	94	1.298+02	7.640+01	1.157-10	5.659-01	58	82	1.475+02	4.087+01	9.525-11	9.574-01
57	95	1.296+02	1.377-00	3.469-12	1.690-02	58	94	1.303+02	3.653-02	3.984-14	2.760-04
57	97	1.296+02	1.343+02	6.086-10	2.961-00	58	95	1.301+02	1.153+02	2.091-10	1.443-00
57	98	1.293+02	1.479-01	5.194-13	2.513-03	58	96	1.301+02	5.036+02	2.008-09	1.384+01
57	99	1.292+02	2.461+02	6.160-10	2.973-00	58	97	1.301+02	2.909+01	9.488-11	6.541-01
57	100	1.292+02	5.024+01	1.760-10	8.493-01	58	98	1.299+02	8.965+02	2.266-09	1.554+01
57	101	1.291+02	6.736+02	3.032-09	1.461+01	58	99	1.297+02	8.909+01	1.606-10	1.098-00
57	110	1.289+02	2.814-00	4.209-12	2.018-02	58	100	1.297+02	1.832+02	4.623-10	3.160-00
57	111	1.284+02	3.826-01	5.669-13	2.681-03	58	101	1.297+02	1.227+03	3.977-09	2.715+01
57	112	1.280+02	4.732-03	1.162-14	5.453-05	58	110	1.294+02	3.540-03	3.812-15	2.589-05
57	113	1.264+02	3.186-01	1.526-13	6.891-04	58	111	1.289+02	6.235-02	6.652-14	4.456-04
57	114	1.193+02	2.519-03	3.224-15	1.224-05	58	112	1.285+02	8.849-01	1.565-12	1.040-02
57	119	1.169+02	2.373-01	9.731-14	3.481-04	58	114	1.197+02	4.204-02	3.871-14	2.080-04
57	120	1.143+02	5.824-01	1.597-12	5.335-03	58	120	1.147+02	2.634-02	5.196-14	2.456-04
57	121	1.142+02	2.710-01	7.425-13	2.477-03	58	121	1.147+02	4.595-01	9.056-13	4.274-03
57	122	1.142+02	5.934-01	2.090-12	6.968-03	58	122	1.146+02	2.196-01	5.564-13	2.625-03
57	123	1.142+02	1.656-01	3.237-13	1.078-03	58	123	1.146+02	2.442-02	3.435-14	1.619-04
57	132	9.267+01	2.442+02	1.886-10	3.358-01	58	132	9.293+01	3.601-00	1.998-12	5.022-03
57	133	9.262+01	3.058+02	3.933-10	6.989-01	58	133	9.289+01	1.512+02	1.397-10	3.506-01
57	134	9.254+01	7.958+01	1.430-10	2.535-01	58	134	9.280+01	3.233+02	4.174-10	1.045-00
57	135	9.134+01	3.818+01	4.776-11	8.141-02	58	135	9.160+01	2.216+02	1.991-10	4.793-01
57	140	5.864+01	8.099-02	2.505-14	1.130-05	58	140	5.875+01	3.117-01	6.912-14	4.389-05
57	141	5.834+01	3.490-01	3.562-14	1.582-05	58	146	5.490+01	1.668-00	3.231-13	1.674-04
57	146	5.481+01	2.968-01	8.019-14	2.953-05	58	147	5.489+01	8.806-01	2.841-13	1.472-04
57	147	5.480+01	3.198-02	1.440-14	5.299-06	58	148	5.488+01	8.532-01	3.852-13	1.993-04
57	148	5.478+01	4.337-03	2.732-15	1.005-06	58	149	5.467+01	4.062-00	1.300-12	6.653-04
57	149	5.458+01	7.225-01	3.227-13	1.173-04	58	154	5.389+01	7.688-03	3.347-15	1.640-06
57	154	5.380+01	1.082-00	6.573-13	2.290-04	58	155	5.389+01	7.873-02	4.408-14	2.160-05
57	155	5.380+01	4.522-01	3.532-13	1.230-04	58	156	5.388+01	2.840-01	1.943-13	9.519-05
57	157	5.379+01	4.921-02	3.842-14	1.338-05	58	157	5.388+01	2.580-00	1.444-12	7.073-04
58	60	1.897+03	1.151-07	2.661-17	5.685-04	59	60	3.188+03	6.978-06	1.063-14	4.623-01
58	61	1.896+03	9.303-05	6.445-14	1.375-00	59	63	3.077+03	9.240-05	2.186-13	8.546-00
58	62	1.891+03	1.293-03	1.089-12	2.306+01	59	64	2.838+03	1.526-04	4.301-13	1.320+01
58	63	1.857+03	3.823-04	1.411-13	2.829-00	59	65	2.804+03	7.824-05	1.537-13	4.544-00

Table 5. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic quadrupole (M2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
59	66	2.782+03	1.253-04	3.392-13	9.806-00	60	106	1.389+02	4.597+02	3.101-09	1.115+01
59	72	7.396+02	5.348-04	1.023-13	5.557-02	60	115	1.270+02	6.588-03	2.656-14	7.306-05
59	74	7.294+02	6.572-03	1.223-12	6.370-01	60	116	1.269+02	3.364-04	1.353-15	3.711-06
59	75	7.289+02	3.057-03	4.058-13	2.109-01	60	117	1.267+02	6.782-02	3.806-13	1.038-03
59	78	1.548+02	8.132+01	2.922-10	1.455-00	60	118	1.254+02	1.743-03	4.109-15	1.088-05
59	79	1.539+02	5.321-02	3.148-13	1.539-03	60	124	1.216+02	5.190-01	2.687-12	6.490-03
59	80	1.532+02	3.404-01	2.796-12	1.350-02	60	129	1.125+02	1.204-01	2.285-13	4.364-04
59	81	1.529+02	2.421+01	8.481-11	4.065-01	60	130	1.115+02	4.521-03	1.405-14	2.617-05
59	82	1.523+02	3.157+01	1.830-10	8.678-01	60	131	1.109+02	2.163-05	3.991-17	7.311-08
59	94	1.340+02	3.570+01	9.615-11	3.106-01	60	136	9.214+01	8.485+01	1.800-10	1.890-01
59	95	1.339+02	3.549+02	1.589-09	5.115-00	60	137	9.212+01	1.773+02	5.263-10	5.522-01
59	98	1.336+02	5.490+02	3.426-09	1.095+01	60	139	9.199+01	1.493+02	4.419-10	4.617-01
59	99	1.334+02	2.692+02	1.198-09	3.819-00	60	143	5.871+01	1.614-01	8.338-14	2.264-05
59	100	1.334+02	2.295+02	1.429-09	4.554-00	60	144	5.858+01	8.440-04	7.236-16	1.952-07
59	110	1.331+02	1.178-00	3.130-12	9.912-03	60	145	5.849+01	2.087-03	1.071-15	2.875-07
59	111	1.325+02	1.010-00	2.658-12	8.299-03	60	150	5.557+01	5.869-00	4.528-12	1.043-03
59	112	1.321+02	3.113-01	1.358-12	4.205-03	60	151	5.556+01	3.146-01	3.398-13	7.822-05
59	114	1.229+02	6.297-01	1.425-12	3.547-03	60	153	5.553+01	1.047+01	1.129-11	2.595-03
59	120	1.176+02	1.627-00	7.868-12	1.717-02	61	68	2.485+03	5.411-07	2.784-16	1.720-02
59	121	1.175+02	2.181+01	1.054-10	2.296-01	61	69	2.366+03	1.038-07	4.842-17	2.583-03
59	123	1.175+02	8.691-00	2.997-11	6.521-02	61	70	2.233+03	5.597-08	3.255-17	1.460-03
59	132	9.481+01	1.239+01	1.670-11	1.910-02	61	76	1.772+02	7.474-06	1.955-17	4.381-07
59	133	9.477+01	7.948+01	1.784-10	2.037-01	61	88	1.461+02	3.413-01	1.093-12	1.372-02
59	134	9.468+01	1.697+02	5.322-10	6.062-01	61	89	1.459+02	2.567-01	4.554-13	5.699-03
59	135	9.343+01	1.462-00	3.189-12	3.491-03	61	90	1.459+02	4.139-00	1.027-11	1.284-01
59	140	5.950+01	1.261-00	6.690-13	1.891-04	61	91	1.454+02	5.268-00	9.273-12	1.147-01
59	146	5.555+01	1.867-01	8.638-14	1.987-05	61	92	1.451+02	8.712-01	2.138-12	2.627-02
59	147	5.554+01	1.320-00	1.017-12	2.340-04	61	102	1.392+02	1.183-00	1.909-12	2.071-02
59	148	5.553+01	2.025-00	2.184-12	5.019-04	61	103	1.391+02	9.407-01	2.123-12	2.303-02
59	149	5.532+01	1.576-01	1.205-13	2.737-05	61	104	1.390+02	9.457+02	3.347-09	3.619+01
59	154	5.452+01	4.291-01	4.461-13	9.701-05	61	105	1.389+02	8.065+02	3.372-09	3.643+01
60	68	2.484+03	3.954-08	6.095-17	1.254-03	61	106	1.389+02	5.280+01	1.187-10	1.281-00
60	69	2.365+03	7.583-08	1.060-16	1.881-03	61	107	1.389+02	9.685-00	2.799-11	3.017-01
60	70	2.232+03	5.065-08	8.829-17	1.318-03	61	108	1.388+02	3.255+02	9.396-10	1.010+01
60	71	1.589+03	8.265-07	3.129-16	1.685-03	61	109	1.387+02	3.163+01	1.115-10	1.199-00
60	76	1.772+02	3.738-05	2.933-16	2.190-06	61	115	1.270+02	4.622-05	6.212-17	5.127-07
60	77	1.764+02	1.288-03	6.007-15	4.423-05	61	116	1.269+02	3.969-06	5.322-18	4.378-08
60	85	1.498+02	2.103-03	7.072-15	3.188-05	61	117	1.267+02	4.663-04	8.724-16	7.138-06
60	87	1.465+02	3.492-00	1.124-11	4.746-02	61	124	1.217+02	2.339-02	4.036-14	2.925-04
60	89	1.459+02	3.400-01	1.809-12	7.546-03	61	125	1.216+02	5.062-02	1.123-13	8.131-04
60	90	1.459+02	1.027-02	7.644-14	3.184-04	61	126	1.216+02	4.671-02	1.035-13	7.490-04
60	91	1.454+02	8.651-01	4.568-12	1.883-02	61	127	1.216+02	1.917-01	5.189-13	3.752-03
60	92	1.451+02	1.494-02	1.099-13	4.504-04	61	130	1.115+02	8.686-04	9.001-16	5.029-06
60	93	1.425+02	5.445-01	1.659-12	6.446-03	61	136	9.214+01	7.331+02	5.184-10	1.633-00
60	102	1.392+02	5.620+02	2.720-09	9.838-00	61	137	9.213+01	2.298+02	2.274-10	7.159-01
60	103	1.391+02	2.502+02	1.694-09	6.123-00	61	138	9.209+01	8.351-00	1.062-11	3.338-02

Table 5. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic quadrupole (M2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
61	139	9.200+01	3.086+01	3.045-11	9.546-02	63	106	1.391+02	2.721+01	1.105-10	6.651-01
61	144	5.858+01	4.716-04	1.348-16	1.091-07	63	107	1.391+02	2.067+02	1.078-09	6.487-00
61	150	5.557+01	1.913-00	4.919-13	3.398-04	63	108	1.390+02	2.930+01	1.527-10	9.166-01
61	151	5.556+01	6.110-00	2.200-12	1.519-03	63	115	1.272+02	6.829-04	1.657-15	7.628-06
61	152	5.556+01	1.151-02	5.325-15	3.677-06	63	116	1.271+02	8.505-08	2.059-19	9.448-10
61	153	5.553+01	4.091-00	1.471-12	1.015-03	63	117	1.268+02	1.685-01	5.692-13	2.598-03
62	70	2.240+03	3.030-07	1.450-16	8.024-03	63	118	1.256+02	1.854-02	2.630-14	1.165-04
62	88	1.461+02	5.688+01	1.490-10	2.289-00	63	124	1.218+02	6.321-01	1.969-12	7.959-03
62	90	1.459+02	1.118+01	2.270-11	3.470-01	63	125	1.218+02	8.953-01	3.583-12	1.448-02
62	92	1.451+02	1.555+01	3.123-11	4.694-01	63	126	1.218+02	1.324-01	5.296-13	2.138-03
62	103	1.392+02	1.108-00	2.046-12	2.714-02	63	128	1.128+02	7.768-02	2.963-14	9.507-05
62	104	1.390+02	2.232+01	6.467-11	8.549-01	63	129	1.126+02	4.135-01	4.718-13	1.508-03
62	105	1.390+02	5.163+03	1.767-08	2.334+02	63	130	1.117+02	4.113-01	7.691-13	2.396-03
62	106	1.389+02	1.043-01	1.919-13	2.531-03	63	131	1.111+02	1.151-00	1.277-12	3.914-03
62	107	1.389+02	8.615+01	2.038-10	2.686-00	63	136	9.224+01	6.706+01	8.553-11	1.501-01
62	108	1.388+02	8.855-00	2.092-11	2.751-01	63	137	9.222+01	2.775-01	4.954-13	8.690-04
62	109	1.387+02	1.048+03	3.024-09	3.974+01	63	138	9.218+01	2.430+02	5.572-10	9.763-01
62	117	1.267+02	3.842-03	5.882-15	5.886-05	63	139	9.209+01	3.463+02	6.165-10	1.077-00
62	124	1.217+02	2.137-02	3.018-14	2.674-04	63	142	5.877+01	5.523-01	5.719-14	2.597-05
62	125	1.216+02	2.937-04	5.331-16	4.721-06	63	143	5.875+01	1.275-00	3.957-13	1.794-04
62	126	1.216+02	5.289-04	9.593-16	8.489-06	63	144	5.862+01	7.916-01	4.077-13	1.837-04
62	127	1.216+02	9.807-02	2.173-13	1.922-03	63	145	5.853+01	2.012-00	6.200-13	2.781-04
62	137	9.214+01	1.664+02	1.348-10	5.187-01	63	150	5.560+01	5.193-01	2.407-13	9.255-05
62	138	9.210+01	2.127+02	2.213-10	8.506-01	63	151	5.560+01	2.183+01	1.416-11	5.446-03
62	139	9.201+01	5.286+02	4.269-10	1.636-00	63	152	5.559+01	2.551-01	2.127-13	8.176-05
62	151	5.557+01	1.713-00	5.046-13	4.261-04	63	153	5.557+01	3.091+01	2.003-11	7.687-03
62	152	5.556+01	4.886+01	1.850-11	1.562-02	64	68	2.747+03	9.435-09	7.626-18	4.952-04
62	153	5.554+01	1.038+01	3.056-12	2.576-03	64	69	2.603+03	8.883-07	6.443-16	3.557-02
63	68	2.556+03	4.524-08	4.429-17	1.654-03	64	70	2.443+03	1.752-06	1.568-15	7.157-02
63	69	2.430+03	4.913-06	4.349-15	1.396-01	64	71	1.693+03	2.656-04	4.891-14	7.431-01
63	70	2.290+03	5.204-08	5.728-17	1.539-03	64	76	1.784+02	9.018-03	3.075-14	5.469-04
63	71	1.618+03	2.898-04	6.827-14	6.470-01	64	77	1.776+02	5.512-02	1.117-13	1.959-03
63	76	1.776+02	1.821-03	8.609-15	1.078-04	64	85	1.506+02	2.712-01	3.954-13	4.232-03
63	77	1.767+02	2.078-02	5.837-14	7.207-04	64	87	1.474+02	3.435-01	4.793-13	4.803-03
63	84	1.503+02	4.748-02	3.216-14	2.442-04	64	88	1.469+02	1.255-00	5.222-12	5.189-02
63	85	1.500+02	6.619-01	1.340-12	1.012-02	64	89	1.468+02	2.678+01	6.178-11	6.115-01
63	86	1.472+02	2.668-00	1.732-12	1.235-02	64	90	1.467+02	2.775-00	8.955-12	8.854-02
63	87	1.468+02	2.003+01	3.882-11	2.745-01	64	91	1.462+02	6.497-05	1.487-16	1.455-06
63	88	1.464+02	1.520-02	8.787-14	6.162-04	64	92	1.459+02	1.690+01	5.392-11	5.241-01
63	89	1.462+02	2.047+01	6.557-11	4.581-01	64	93	1.433+02	2.024+01	2.671-11	2.463-01
63	90	1.461+02	7.891-01	3.536-12	2.468-02	64	102	1.399+02	2.236+01	4.689-11	4.022-01
63	91	1.456+02	2.034-01	6.464-13	4.463-03	64	103	1.399+02	1.394+03	4.088-09	3.504+01
63	92	1.453+02	1.141-00	5.054-12	3.467-02	64	104	1.397+02	2.522+01	1.160-10	9.914-01
63	93	1.428+02	1.363+01	2.499-11	1.626-01	64	106	1.396+02	1.461-00	4.270-12	3.639-02
63	102	1.394+02	1.628+02	4.741-10	2.872-00	64	107	1.396+02	3.153+03	1.184-08	1.009+02
63	103	1.394+02	3.594+03	1.465-08	8.865+01	64	108	1.395+02	2.768+01	1.038-10	8.824-01

Table 5. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic quadrupole (M2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
64	109	1.395+02	2.338+02	1.071-09	9.097-00	65	117	1.274+02	3.277-04	1.116-15	5.154-06
64	115	1.277+02	9.678-05	1.689-16	1.100-06	65	118	1.261+02	1.925-02	2.753-14	1.234-04
64	116	1.275+02	1.073-03	1.868-15	1.213-05	65	124	1.223+02	5.615-01	1.762-12	7.208-03
64	117	1.273+02	6.526-02	1.585-13	1.024-03	65	125	1.223+02	5.015-02	2.023-13	8.267-04
64	118	1.260+02	3.212-02	3.278-14	2.054-04	65	126	1.222+02	2.693-01	1.086-12	4.433-03
64	124	1.222+02	1.252-02	2.803-14	1.602-04	65	128	1.132+02	5.231-01	2.009-13	6.518-04
64	125	1.222+02	3.431-00	9.874-12	5.641-02	65	129	1.130+02	4.208-02	4.836-14	1.562-04
64	126	1.222+02	3.472-01	9.985-13	5.700-03	65	130	1.121+02	3.362-02	6.332-14	1.994-04
64	127	1.221+02	7.346-01	2.581-12	1.472-02	65	131	1.115+02	2.556-01	2.857-13	8.848-04
64	129	1.130+02	2.342-02	1.921-14	8.674-05	65	136	9.251+01	1.296+02	1.663-10	2.945-01
64	130	1.120+02	8.470-01	1.138-12	5.011-03	65	137	9.249+01	2.280+02	4.094-10	7.245-01
64	131	1.114+02	1.010-00	8.058-13	3.489-03	65	138	9.245+01	1.749+02	4.035-10	7.133-01
64	136	9.247+01	1.000+02	9.158-11	2.268-01	65	139	9.236+01	2.444-01	4.375-13	7.709-04
64	137	9.245+01	4.385-03	5.619-15	1.390-05	65	142	5.888+01	5.375-01	5.587-14	2.550-05
64	138	9.242+01	6.869+01	1.131-10	2.795-01	65	143	5.885+01	4.214-02	1.313-14	5.987-06
64	139	9.232+01	3.262+02	4.168-10	1.027-00	65	144	5.872+01	4.308-02	2.227-14	1.009-05
64	143	5.884+01	2.310-01	5.139-14	3.278-05	65	145	5.864+01	1.989-01	6.152-14	2.775-05
64	144	5.871+01	2.292-00	8.458-13	5.360-04	65	150	5.570+01	5.610-01	2.609-13	1.008-04
64	145	5.863+01	1.320-00	2.915-13	1.840-04	65	151	5.570+01	4.811-02	3.132-14	1.211-05
64	150	5.569+01	1.385-01	4.600-14	2.487-05	65	152	5.569+01	5.258-00	4.401-12	1.700-03
64	151	5.568+01	1.122-00	5.218-13	2.821-04	65	153	5.567+01	5.372-00	3.494-12	1.348-03
64	152	5.568+01	3.043+01	1.819-11	9.829-03	66	68	2.802+03	7.831-11	6.584-20	4.537-06
64	153	5.565+01	3.738-00	1.735-12	9.367-04	66	69	2.652+03	6.269-07	4.720-16	2.756-02
65	68	2.781+03	4.410-07	5.112-16	2.459-02	66	70	2.486+03	3.801-09	3.522-18	1.694-04
65	69	2.633+03	8.301-07	8.626-16	3.521-02	66	71	1.714+03	8.341-05	1.574-14	2.480-01
65	70	2.469+03	8.621-09	1.103-17	3.716-04	66	76	1.786+02	1.396-03	4.771-15	8.520-05
65	71	1.706+03	1.330-04	3.480-14	3.863-01	66	77	1.778+02	3.152-02	6.402-14	1.127-03
65	76	1.786+02	3.281-05	1.569-16	1.998-06	66	85	1.508+02	4.200-02	6.137-14	6.590-04
65	77	1.777+02	1.482-02	4.210-14	5.286-04	66	87	1.475+02	4.932-00	6.896-12	6.932-02
65	84	1.510+02	1.585-01	1.084-13	8.349-04	66	88	1.471+02	4.935-01	2.059-12	2.052-02
65	85	1.507+02	2.029-01	4.147-13	3.177-03	66	89	1.469+02	5.577-00	1.289-11	1.280-01
65	86	1.479+02	2.605+01	1.707-11	1.234-01	66	90	1.469+02	1.329-00	4.298-12	4.263-02
65	87	1.475+02	7.588-00	1.484-11	1.064-01	66	91	1.463+02	1.545-00	3.543-12	3.477-02
65	88	1.470+02	1.734-03	1.012-14	7.194-05	66	92	1.460+02	7.061-00	2.257-11	2.201-01
65	89	1.469+02	4.154-00	1.343-11	9.515-02	66	93	1.435+02	1.422+01	1.881-11	1.740-01
65	90	1.468+02	1.301-01	5.885-13	4.164-03	66	102	1.401+02	6.185+01	1.299-10	1.118-00
65	91	1.463+02	5.522-00	1.771-11	1.240-01	66	103	1.400+02	1.159+02	3.407-10	2.928-00
65	92	1.460+02	6.792-01	3.037-12	2.113-02	66	104	1.399+02	2.842+02	1.310-09	1.123+01
65	93	1.434+02	7.474-00	1.383-11	9.125-02	66	106	1.398+02	5.076+02	1.487-09	1.271+01
65	102	1.400+02	3.428+02	1.007-09	6.185-00	66	107	1.397+02	1.291+02	4.857-10	4.149-00
65	103	1.400+02	3.973+02	1.634-09	1.002+01	66	108	1.396+02	6.238+02	2.344-09	1.999+01
65	106	1.397+02	5.066+02	2.075-09	1.266+01	66	109	1.396+02	1.084+03	4.979-09	4.242+01
65	107	1.397+02	7.776+02	4.094-09	2.495+01	66	115	1.278+02	1.216-03	2.125-15	1.388-05
65	108	1.396+02	5.591+02	2.939-09	1.788+01	66	116	1.276+02	2.317-04	4.042-16	2.631-06
65	115	1.277+02	8.473-03	2.072-14	9.658-05	66	117	1.274+02	1.058-02	2.575-14	1.667-04
65	116	1.276+02	7.730-03	1.886-14	8.762-05	66	118	1.261+02	1.111-02	1.135-14	7.134-05

Table 5. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic quadrupole (M2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
66	124	1.223+02	2.806-01	6.294-13	3.607-03	67	139	9.243+01	3.287+02	3.275-10	1.041-00
66	125	1.223+02	4.797-01	1.383-12	7.922-03	67	144	5.876+01	8.734-02	2.511-14	2.051-05
66	126	1.223+02	6.716-01	1.935-12	1.108-02	67	150	5.573+01	2.103-00	5.439-13	3.790-04
66	127	1.222+02	2.503-01	8.809-13	5.038-03	67	151	5.572+01	4.354-00	1.576-12	1.098-03
66	129	1.131+02	1.673-01	1.374-13	6.220-04	67	152	5.572+01	5.190-01	2.416-13	1.683-04
66	130	1.121+02	1.414-01	1.903-13	8.399-04	67	153	5.569+01	9.236-00	3.340-12	2.323-03
66	131	1.115+02	2.643-01	2.111-13	9.164-04	68	72	1.573+03	1.588-03	8.246-13	7.176-00
66	136	9.253+01	2.699+02	2.475-10	6.140-01	68	73	1.551+03	2.917-03	1.893-12	1.580+01
66	137	9.251+01	2.962+02	3.801-10	9.425-01	68	74	1.527+03	3.817-04	1.869-13	1.490-00
66	138	9.248+01	5.877+01	9.688-11	2.399-01	68	75	1.525+03	6.983-04	2.435-13	1.932-00
66	139	9.238+01	5.689-01	7.279-13	1.797-03	68	78	1.741+02	7.408-02	2.020-13	2.385-03
66	143	5.887+01	1.515-01	3.374-14	2.155-05	68	79	1.729+02	2.775-05	1.244-16	1.439-06
66	144	5.873+01	2.409-01	8.898-14	5.646-05	68	80	1.721+02	3.180-02	1.977-13	2.256-03
66	145	5.865+01	2.193-01	4.848-14	3.063-05	68	81	1.716+02	1.172-02	3.105-14	3.512-04
66	150	5.571+01	2.499-00	8.305-13	4.496-04	68	82	1.710+02	9.678-02	4.241-13	4.740-03
66	151	5.571+01	4.284-01	1.993-13	1.079-04	68	83	1.658+02	6.415-04	5.287-16	5.390-06
66	152	5.570+01	2.066-00	1.235-12	6.685-04	68	94	1.483+02	4.152-01	8.210-13	5.984-03
66	153	5.567+01	2.547-02	1.183-14	6.395-06	68	95	1.481+02	3.022-02	9.931-14	7.209-04
67	68	2.852+03	4.410-07	2.987-16	2.788-02	68	97	1.480+02	3.348-01	1.979-12	1.434-02
67	69	2.696+03	2.027-06	1.227-15	9.681-02	68	98	1.477+02	2.969-02	1.359-13	9.791-04
67	70	2.525+03	2.283-09	1.697-18	1.100-04	68	99	1.475+02	8.798-01	2.871-12	2.062-02
67	76	1.789+02	1.387-03	3.696-15	8.514-05	68	100	1.475+02	3.988-02	1.822-13	1.308-03
67	88	1.472+02	1.729+01	5.621-11	7.223-01	68	101	1.474+02	1.112-00	6.521-12	4.674-02
67	89	1.471+02	8.028-00	1.446-11	1.851-01	68	110	1.472+02	2.876-00	5.603-12	3.994-02
67	90	1.470+02	6.244-00	1.573-11	2.011-01	68	111	1.464+02	4.788-01	9.230-13	6.477-03
67	91	1.465+02	2.567+01	4.587-11	5.804-01	68	112	1.459+02	9.557-02	3.052-13	2.122-03
67	92	1.462+02	3.193+01	7.953-11	9.997-01	68	113	1.439+02	9.696-00	6.017-12	4.007-02
67	102	1.402+02	3.849-02	6.300-14	6.987-04	68	114	1.347+02	1.168-02	1.906-14	1.042-04
67	103	1.401+02	1.306+02	2.991-10	3.315-00	68	119	1.317+02	3.458-01	1.799-13	9.203-04
67	104	1.400+02	1.963+01	7.050-11	7.787-01	68	120	1.284+02	2.613+02	9.041-10	4.281-00
67	105	1.400+02	4.375+02	1.856-09	2.049+01	68	121	1.283+02	3.853+01	1.332-10	6.297-01
67	106	1.399+02	4.722-00	1.077-11	1.187-01	68	122	1.283+02	4.242+02	1.885-09	8.909-00
67	107	1.399+02	1.481+03	4.342-09	4.782+01	68	123	1.283+02	9.389+01	2.316-10	1.093-00
67	108	1.398+02	9.194+01	2.692-10	2.959-00	68	132	1.017+02	4.257-01	3.962-13	9.328-04
67	109	1.397+02	3.826+03	1.369-08	1.503+02	68	133	1.017+02	2.269-01	3.515-13	8.263-04
67	115	1.279+02	3.395-04	4.624-16	3.892-06	68	134	1.016+02	4.789-01	1.037-12	2.430-03
67	116	1.277+02	2.223-03	3.020-15	2.534-05	68	135	1.001+02	7.659-02	1.151-13	2.585-04
67	117	1.275+02	1.325-02	2.512-14	2.096-04	68	140	6.214+01	8.812-03	3.061-15	1.643-06
67	124	1.224+02	1.301-02	2.273-14	1.679-04	68	141	6.180+01	8.947-03	1.025-15	5.411-07
67	125	1.224+02	1.054-00	2.366-12	1.746-02	68	146	5.785+01	2.638-00	7.942-13	3.440-04
67	126	1.223+02	1.237-02	2.776-14	2.047-04	68	147	5.785+01	5.394-01	2.706-13	1.171-04
67	127	1.223+02	3.452-00	9.464-12	6.974-02	68	148	5.783+01	9.847-02	6.912-14	2.990-05
67	130	1.122+02	1.674-01	1.755-13	9.976-04	68	149	5.760+01	1.504-01	7.480-14	3.197-05
67	136	9.258+01	1.486+01	1.061-11	3.390-02	68	154	5.673+01	1.245-00	8.408-13	3.434-04
67	137	9.257+01	6.166+01	6.160-11	1.967-01	68	155	5.673+01	5.335-01	4.634-13	1.893-04
67	138	9.253+01	2.523+02	3.238-10	1.033-00	68	157	5.673+01	1.227-01	1.066-13	4.352-05

Table 5. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic quadrupole (M2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
69	72	1.625+03	8.865-05	4.910-14	4.709-01	70	80	1.735+02	4.723-02	2.131-13	3.485-03
69	73	1.601+03	1.056-03	7.307-13	6.710-00	70	81	1.730+02	6.479-03	1.246-14	2.020-04
69	74	1.576+03	1.500-02	7.821-12	6.849+01	70	82	1.723+02	6.449-03	2.050-14	3.284-04
69	75	1.574+03	1.303-06	4.840-16	4.219-03	70	94	1.493+02	2.372-00	3.395-12	3.536-02
69	78	1.747+02	8.232-02	2.261-13	2.697-03	70	95	1.491+02	1.504-00	3.578-12	3.711-02
69	79	1.736+02	1.906-01	8.604-13	1.006-02	70	96	1.490+02	1.786-01	9.342-13	9.676-03
69	80	1.727+02	2.823-01	1.768-12	2.038-02	70	97	1.490+02	8.125-02	3.477-13	3.601-03
69	81	1.722+02	5.949-02	1.588-13	1.815-03	70	98	1.487+02	1.575-00	5.219-12	5.371-02
69	82	1.716+02	5.209-01	2.299-12	2.596-02	70	99	1.485+02	2.351-02	5.554-14	5.698-04
69	83	1.664+02	8.819-00	7.318-12	7.536-02	70	100	1.485+02	1.885-02	6.234-14	6.394-04
69	94	1.487+02	4.669-04	9.287-16	6.831-06	70	101	1.484+02	2.785-01	1.183-12	1.211-02
69	95	1.485+02	7.672-00	2.536-11	1.858-01	70	110	1.481+02	5.531+01	7.799-11	7.942-01
69	97	1.484+02	6.055-02	3.600-13	2.633-03	70	111	1.474+02	6.370+01	8.889-11	8.910-01
69	98	1.481+02	2.519-00	1.160-11	8.432-02	70	112	1.469+02	1.864+02	4.309-10	4.280-00
69	99	1.480+02	1.543-00	5.066-12	3.672-02	70	114	1.356+02	1.505-01	1.777-13	1.386-03
69	100	1.480+02	5.198-01	2.388-12	1.730-02	70	120	1.292+02	5.200-01	1.300-12	8.774-03
69	101	1.479+02	1.722-00	1.016-11	7.351-02	70	121	1.291+02	3.899+02	9.741-10	6.562-00
69	110	1.476+02	3.355+01	6.574-11	4.728-01	70	122	1.291+02	2.544+03	8.168-09	5.500+01
69	111	1.468+02	1.628+02	3.157-10	2.236-00	70	123	1.290+02	2.449-04	4.364-16	2.935-06
69	112	1.464+02	4.361+01	1.401-10	9.828-01	70	132	1.022+02	1.739-00	1.167-12	3.900-03
69	113	1.443+02	7.407+01	4.623-11	3.105-01	70	133	1.021+02	2.154-01	2.406-13	8.029-04
69	114	1.351+02	3.446-00	5.656-12	3.119-02	70	134	1.020+02	5.702-01	8.901-13	2.961-03
69	119	1.321+02	9.828-02	5.142-14	2.651-04	70	135	1.006+02	2.681-01	2.905-13	9.258-04
69	120	1.287+02	1.252-00	4.354-12	2.078-02	70	140	6.232+01	8.585-02	2.142-14	1.624-05
69	121	1.287+02	2.372+03	8.241-09	3.927+01	70	146	5.801+01	2.024-00	4.376-13	2.674-04
69	122	1.286+02	1.806+02	8.067-10	3.842-00	70	147	5.800+01	8.376-00	3.017-12	1.843-03
69	123	1.286+02	1.641-01	4.070-13	1.936-03	70	148	5.798+01	1.312-00	6.615-13	4.038-04
69	132	1.019+02	3.762-01	3.516-13	8.330-04	70	149	5.775+01	8.538-00	3.049-12	1.839-03
69	133	1.019+02	3.029-02	4.714-14	1.115-04	70	154	5.688+01	5.896-02	2.860-14	1.648-05
69	134	1.018+02	5.937-00	1.291-11	3.044-02	70	155	5.688+01	8.976-03	5.597-15	3.226-06
69	135	1.003+02	2.426-00	3.662-12	8.273-03	70	156	5.687+01	8.709-01	6.637-13	3.823-04
69	140	6.222+01	1.882-01	6.553-14	3.531-05	70	157	5.687+01	3.781-00	2.357-12	1.358-03
69	141	6.188+01	8.138-01	9.344-14	4.953-05	71	72	2.444+03	4.761-05	9.952-14	1.951-00
69	146	5.792+01	2.116-01	6.387-14	2.776-05	71	74	2.336+03	2.560-04	4.889-13	8.369-00
69	147	5.791+01	1.378-02	6.931-15	3.011-06	71	75	2.331+03	1.832-04	2.487-13	4.227-00
69	148	5.790+01	1.473-00	1.036-12	4.497-04	71	78	1.813+02	5.004-00	2.465-11	1.970-01
69	149	5.767+01	1.429-01	7.125-14	3.056-05	71	79	1.800+02	4.193-02	3.395-13	2.657-03
69	154	5.680+01	8.916-03	6.037-15	2.474-06	71	80	1.791+02	1.985-02	2.228-13	1.718-03
69	155	5.680+01	5.745-02	5.001-14	2.050-05	71	81	1.786+02	1.464-00	7.000-12	5.351-02
69	157	5.679+01	4.419-01	3.846-13	1.576-04	71	82	1.779+02	2.949-00	2.331-11	1.760-01
70	72	1.694+03	1.601-05	6.885-15	1.048-01	71	94	1.534+02	3.036-04	1.071-15	5.191-06
70	73	1.668+03	1.217-02	6.530-12	9.495+01	71	95	1.532+02	2.439+01	1.430-10	6.901-01
70	74	1.641+03	2.008-03	8.109-13	1.122+01	71	98	1.528+02	2.420+01	1.976-10	9.461-01
70	75	1.638+03	7.631-08	2.194-17	3.022-04	71	99	1.526+02	1.875+01	1.091-10	5.208-01
70	78	1.755+02	1.645-01	3.255-13	5.509-03	71	100	1.526+02	4.854-00	3.955-11	1.887-01
70	79	1.743+02	1.046-02	3.402-14	5.643-04	71	110	1.522+02	5.002-00	1.738-11	8.230-02

Table 5. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic quadrupole (M2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
71	111	1.514+02	1.737-01	5.971-13	2.782-03	72	138	1.018+02	3.096-01	6.188-13	2.046-03
71	112	1.509+02	1.574-05	8.963-17	4.137-07	72	139	1.017+02	2.651-01	4.112-13	1.355-03
71	114	1.390+02	3.113-01	9.011-13	3.245-03	72	143	6.252+01	1.239-02	3.110-15	2.380-06
71	120	1.322+02	5.065+01	3.099-10	9.621-01	72	144	6.237+01	2.954-04	1.230-16	9.349-08
71	121	1.322+02	3.029+02	1.851-09	5.738-00	72	145	6.228+01	4.233-03	1.055-15	7.977-07
71	123	1.321+02	2.035+02	8.876-10	2.746-00	72	150	5.897+01	7.114-00	2.649-12	1.701-03
71	132	1.041+02	1.830-06	2.975-18	4.507-09	72	151	5.897+01	9.407-01	4.904-13	3.149-04
71	133	1.041+02	1.738-01	4.702-13	7.113-04	72	152	5.896+01	2.635-02	1.766-14	1.133-05
71	134	1.040+02	7.393-00	2.795-11	4.215-02	72	153	5.893+01	1.772-01	9.228-14	5.914-05
71	135	1.025+02	6.071-01	1.592-12	2.298-03	73	76	2.176+02	1.867-04	7.363-16	3.054-05
71	140	6.303+01	4.148-01	2.471-13	8.304-05	73	88	1.725+02	2.395-02	1.068-13	2.209-03
71	146	5.862+01	6.851-03	3.530-15	9.544-07	73	89	1.723+02	5.568-02	1.376-13	2.833-03
71	147	5.861+01	8.755-02	7.515-14	2.031-05	73	90	1.722+02	1.966-02	6.795-14	1.397-03
71	148	5.860+01	2.499-00	3.002-12	8.105-04	73	91	1.715+02	1.977-03	4.842-15	9.830-05
71	149	5.836+01	1.379-01	1.174-13	3.131-05	73	92	1.710+02	1.431-02	4.882-14	9.835-04
71	154	5.747+01	2.678-01	3.094-13	7.883-05	73	102	1.629+02	1.919-03	4.243-15	7.387-05
72	76	2.172+02	3.561-07	1.798-18	5.767-08	73	103	1.629+02	1.364-01	4.219-13	7.338-03
72	77	2.159+02	1.348-03	4.039-15	1.273-04	73	104	1.627+02	5.285-04	2.562-15	4.440-05
72	85	1.774+02	1.483-04	2.997-16	5.235-06	73	105	1.626+02	1.084-01	6.206-13	1.074-02
72	87	1.728+02	3.535-02	6.784-14	1.097-03	73	106	1.625+02	1.877-03	5.781-15	9.988-05
72	88	1.722+02	3.075-04	1.759-15	2.815-05	73	107	1.625+02	9.140-01	3.617-12	6.245-02
72	89	1.720+02	5.661-03	1.793-14	2.858-04	73	108	1.623+02	1.204-02	4.758-14	8.196-04
72	90	1.719+02	5.980-03	2.650-14	4.216-04	73	109	1.623+02	8.775-01	4.235-12	7.288-02
72	91	1.712+02	1.153-03	3.618-15	5.686-05	73	115	1.465+02	1.509+01	2.698-11	3.417-01
72	92	1.708+02	6.505-03	2.844-14	4.436-04	73	116	1.463+02	7.607-00	1.357-11	1.712-01
72	93	1.673+02	2.000-02	3.597-14	5.275-04	73	117	1.460+02	6.690+01	1.664-10	2.086-00
72	102	1.627+02	5.475-02	1.552-13	2.092-03	73	124	1.394+02	7.741-04	1.754-15	1.913-05
72	103	1.626+02	4.175-03	1.655-14	2.229-04	73	125	1.394+02	4.576+02	1.333-09	1.452+01
72	104	1.624+02	1.759-01	1.093-12	1.467-02	73	126	1.393+02	1.892+01	5.507-11	5.996-01
72	106	1.623+02	3.339-01	1.318-12	1.764-02	73	127	1.393+02	5.488+03	1.951-08	2.122+02
72	107	1.622+02	3.093-04	1.569-15	2.098-05	73	130	1.263+02	2.880-02	3.827-14	3.104-04
72	108	1.621+02	1.424-01	7.211-13	9.618-03	73	136	1.020+02	1.363-01	1.181-13	5.044-04
72	109	1.621+02	2.591-01	1.603-12	2.136-02	73	137	1.020+02	1.524-02	1.847-14	7.882-05
72	115	1.463+02	7.041-00	1.614-11	1.584-01	73	138	1.019+02	1.812-00	2.822-12	1.203-02
72	116	1.461+02	6.223-01	1.423-12	1.391-02	73	139	1.018+02	1.342-01	1.621-13	6.887-04
72	117	1.458+02	5.206-02	1.660-13	1.613-03	73	144	6.241+01	2.644-02	8.576-15	8.392-06
72	118	1.442+02	3.059-00	4.086-12	3.835-02	73	150	5.900+01	3.442-00	9.979-13	8.252-04
72	124	1.392+02	1.675+02	4.869-10	4.115-00	73	151	5.900+01	1.173+01	4.761-12	3.936-03
72	125	1.392+02	3.999+01	1.494-10	1.262-00	73	152	5.899+01	2.676-00	1.396-12	1.154-03
72	126	1.391+02	1.051+03	3.922-09	3.309+01	73	153	5.896+01	1.978+01	8.018-12	6.617-03
72	127	1.391+02	6.961+02	3.173-09	2.675+01	74	76	2.181+02	6.303-03	3.210-14	1.042-03
72	129	1.274+02	1.595-02	1.663-14	1.076-04	74	77	2.168+02	1.026-02	3.098-14	9.887-04
72	130	1.262+02	3.729-04	6.355-16	3.995-06	74	85	1.779+02	3.391-06	6.899-18	1.217-07
72	131	1.254+02	7.926-03	8.005-15	4.939-05	74	87	1.734+02	4.218-02	8.148-14	1.330-03
72	136	1.019+02	3.119-01	3.467-13	1.149-03	74	88	1.728+02	1.221-03	7.028-15	1.136-04
72	137	1.019+02	1.452-01	2.259-13	7.478-04	74	89	1.726+02	7.229-02	2.305-13	3.709-03

Table 5. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic quadrupole (M2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
74	90	1.725+02	2.266-02	1.011-13	1.624-03	75	103	1.631+02	1.279-01	7.146-13	6.942-03
74	91	1.718+02	3.014-03	9.523-15	1.511-04	75	106	1.628+02	1.689-03	9.393-15	9.065-05
74	92	1.713+02	7.912-02	3.482-13	5.484-03	75	107	1.628+02	8.700-03	6.219-14	5.998-04
74	93	1.678+02	6.274-01	1.136-12	1.681-02	75	108	1.626+02	2.393-01	1.708-12	1.643-02
74	102	1.632+02	5.551-03	1.583-14	2.154-04	75	115	1.468+02	2.014-00	6.502-12	4.597-02
74	103	1.631+02	1.000-00	3.990-12	5.424-02	75	116	1.466+02	2.338-03	7.530-15	5.303-05
74	104	1.629+02	1.402-03	8.765-15	1.187-04	75	117	1.463+02	3.083-02	1.385-13	9.691-04
74	106	1.628+02	1.158-02	4.598-14	6.209-04	75	118	1.446+02	6.967-00	1.310-11	8.860-02
74	107	1.627+02	6.213-01	3.171-12	4.280-02	75	124	1.396+02	1.004+03	4.107-09	2.500+01
74	108	1.626+02	4.925-02	2.510-13	3.379-03	75	125	1.396+02	4.615+02	2.426-09	1.476+01
74	109	1.626+02	3.578-01	2.227-12	2.996-02	75	126	1.395+02	1.930+02	1.014-09	6.163-00
74	115	1.467+02	2.484-00	5.726-12	5.665-02	75	128	1.279+02	1.748-02	8.573-15	4.011-05
74	116	1.466+02	6.899+01	1.587-10	1.564-00	75	129	1.277+02	7.312-02	1.072-13	4.993-04
74	117	1.462+02	8.040-00	2.578-11	2.525-01	75	130	1.265+02	1.345-02	3.224-14	1.459-04
74	118	1.446+02	1.375+01	1.846-11	1.747-01	75	131	1.257+02	1.182-03	1.679-15	7.457-06
74	124	1.396+02	1.519-00	4.437-12	3.779-02	75	136	1.021+02	6.378-02	9.968-14	2.373-04
74	125	1.396+02	5.132+03	1.927-08	1.640+02	75	137	1.021+02	1.050+01	2.297-11	5.464-02
74	126	1.395+02	1.284+02	4.817-10	4.096-00	75	138	1.020+02	7.284-00	2.046-11	4.861-02
74	127	1.395+02	1.862+02	8.535-10	7.252-00	75	139	1.019+02	3.565-00	7.772-12	1.840-02
74	129	1.277+02	9.719-02	1.018-13	6.633-04	75	142	6.262+01	9.724-03	1.143-15	6.279-07
74	130	1.264+02	6.578-01	1.126-12	7.132-03	75	143	6.260+01	1.605-01	5.656-14	3.103-05
74	131	1.257+02	7.471-02	7.581-14	4.711-04	75	144	6.245+01	2.279-02	1.333-14	7.259-06
74	136	1.021+02	2.731-02	3.048-14	1.016-04	75	145	6.235+01	1.158-02	4.049-15	2.196-06
74	137	1.021+02	5.250-01	8.199-13	2.730-03	75	150	5.904+01	6.594-01	3.446-13	1.586-04
74	138	1.020+02	8.569+01	1.719-10	5.716-01	75	151	5.904+01	1.172-00	8.572-13	3.945-04
74	139	1.019+02	4.253-01	6.621-13	2.194-03	75	152	5.903+01	3.049-00	2.867-12	1.319-03
74	143	6.259+01	4.335-01	1.091-13	8.380-05	75	153	5.900+01	2.257-01	1.649-13	7.577-05
74	144	6.244+01	2.385-00	9.958-13	7.593-04	76	78	1.988+03	2.467-03	8.772-13	1.542+01
74	145	6.235+01	4.066-01	1.016-13	7.708-05	76	79	1.845+03	1.799-05	9.185-15	1.291-01
74	150	5.903+01	3.069-02	1.145-14	7.378-06	76	80	1.758+03	7.042-03	4.569-12	5.553+01
74	151	5.903+01	6.516-01	3.404-13	2.193-04	76	81	1.708+03	1.291-02	3.388-12	3.776+01
74	152	5.903+01	1.920+01	1.289-11	8.302-03	76	82	1.643+03	1.672-02	6.770-12	6.718+01
74	153	5.900+01	2.685-00	1.401-12	9.008-04	76	83	1.264+03	8.749-02	4.194-12	1.896+01
75	76	2.181+02	1.019-04	7.270-16	1.687-05	76	94	6.647+02	4.985-05	1.981-15	1.301-03
75	77	2.169+02	3.559-03	1.506-14	3.434-04	76	95	6.606+02	8.444-05	5.524-15	3.562-03
75	84	1.784+02	3.654-03	3.485-15	4.424-05	76	97	6.593+02	2.304-07	2.702-17	1.732-05
75	85	1.780+02	5.499-04	1.567-15	1.976-05	76	98	6.532+02	2.667-04	2.389-14	1.489-02
75	86	1.740+02	7.093-03	6.437-15	7.582-05	76	99	6.503+02	3.493-05	2.215-15	1.363-03
75	87	1.734+02	1.232-02	3.331-14	3.887-04	76	100	6.500+02	1.663-05	1.474-15	9.057-04
75	88	1.729+02	1.858-04	1.498-15	1.730-05	76	101	6.485+02	3.348-05	3.800-15	2.318-03
75	89	1.726+02	3.513-03	1.569-14	1.804-04	76	110	6.432+02	1.492-03	5.551-14	3.304-02
75	90	1.725+02	3.879-03	2.423-14	2.782-04	76	111	6.288+02	2.320-03	8.251-14	4.588-02
75	91	1.718+02	8.022-03	3.550-14	4.026-04	76	112	6.207+02	3.892-06	2.248-16	1.202-04
75	92	1.714+02	5.898-04	3.635-15	4.091-05	76	113	5.845+02	9.275-02	9.501-13	4.244-01
75	93	1.679+02	1.481-01	3.754-13	3.972-03	76	114	4.582+02	1.882-02	3.555-13	7.649-02
75	102	1.632+02	2.249-01	8.980-13	8.732-03	76	119	4.255+02	1.336-01	7.254-13	1.250-01

Table 5. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic quadrupole (M2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
76	120	3.926+02	4.148-06	1.342-16	1.816-05	78	89	1.416+03	5.772-03	2.891-12	1.102+01
76	121	3.919+02	1.999-03	6.446-14	8.680-03	78	90	1.410+03	9.684-04	6.738-13	2.536-00
76	122	3.918+02	5.709-05	2.365-15	3.181-04	78	91	1.364+03	5.562-03	2.586-12	8.812-00
76	123	3.913+02	4.882-07	1.121-17	1.501-06	78	92	1.337+03	8.095-04	5.063-13	1.625-00
76	132	2.179+02	1.102-02	4.703-14	1.088-03	78	93	1.150+03	1.082-01	2.145-11	4.380+01
76	133	2.176+02	3.822-02	2.713-13	6.254-03	78	102	9.621+02	4.647-07	1.075-16	1.285-04
76	134	2.171+02	7.651-02	7.573-13	1.734-02	78	103	9.601+02	1.760-07	5.674-17	6.740-05
76	135	2.107+02	7.640-03	5.084-14	1.063-03	78	106	9.480+02	8.817-09	2.772-18	3.169-06
76	140	9.216+01	5.645+02	4.312-10	7.549-01	78	115	5.792+02	1.846-04	1.547-14	4.035-03
76	141	9.141+01	1.230+03	3.081-10	5.263-01	78	116	5.763+02	8.389-03	6.963-13	1.789-01
76	146	8.303+01	1.808-01	1.121-13	1.435-04	78	117	5.718+02	1.876-03	2.145-13	5.381-02
76	147	8.301+01	1.936-01	2.000-13	2.558-04	78	118	5.470+02	5.163-02	2.316-12	5.088-01
76	148	8.297+01	3.869-03	5.590-15	7.143-06	78	124	4.820+02	2.819-07	2.291-17	3.442-06
76	149	8.250+01	2.120-01	2.164-13	2.718-04	78	129	3.644+02	3.728-03	7.422-14	4.821-03
76	154	8.074+01	3.350-07	4.583-19	5.395-10	78	130	3.547+02	1.791-02	5.632-13	3.373-02
76	155	8.074+01	1.524-07	2.682-19	3.157-10	78	131	3.486+02	3.722-02	6.781-13	3.855-02
76	157	8.072+01	9.553-08	1.680-19	1.976-10	78	136	2.125+02	2.624-04	2.960-15	3.809-05
77	78	2.099+03	2.529-04	1.671-13	2.074-00	78	137	2.124+02	4.226-05	6.666-16	8.568-06
77	79	1.940+03	5.051-06	4.752-15	4.660-02	78	139	2.117+02	2.027-04	3.177-15	4.044-05
77	80	1.844+03	8.253-03	9.819-12	8.265+01	78	143	9.185+01	3.743+02	4.734-10	4.922-01
77	81	1.789+03	1.242-03	5.960-13	4.582-00	78	144	9.153+01	7.985+01	1.671-10	1.720-01
77	82	1.718+03	5.535-03	4.082-12	2.779+01	78	145	9.132+01	1.125+02	1.407-10	1.438-01
77	94	6.766+02	2.337-05	1.604-15	6.669-04	78	150	8.439+01	7.475-03	1.330-14	1.073-05
77	95	6.724+02	5.316-04	6.006-14	2.450-02	78	151	8.438+01	2.878-03	7.169-15	5.780-06
77	98	6.648+02	1.364-03	2.108-13	8.313-02	78	153	8.431+01	1.500-06	3.729-18	2.999-09
77	99	6.618+02	3.868-04	4.232-14	1.646-02	79	84	2.084+03	6.535-07	8.511-17	1.724-03
77	100	6.614+02	4.223-04	6.463-14	2.510-02	79	85	2.033+03	1.289-05	4.792-15	9.003-02
77	110	6.544+02	6.136-04	3.939-14	1.481-02	79	86	1.610+03	1.067-03	8.292-14	7.736-01
77	111	6.395+02	3.007-03	1.844-13	6.470-02	79	87	1.564+03	1.557-03	3.425-13	2.929-00
77	112	6.311+02	4.720-04	4.697-14	1.584-02	79	88	1.518+03	1.127-02	7.008-12	5.482+01
77	114	4.639+02	3.356-03	1.083-13	1.450-02	79	89	1.499+03	3.610-03	1.216-12	9.150-00
77	120	3.967+02	2.551-04	1.404-14	1.176-03	79	90	1.492+03	8.683-04	4.058-13	3.017-00
77	121	3.960+02	2.763-03	1.516-13	1.264-02	79	91	1.441+03	1.253-05	3.901-15	2.610-02
77	123	3.954+02	1.115-03	4.356-14	3.613-03	79	92	1.411+03	7.536-03	3.148-12	1.977+01
77	132	2.191+02	1.239-02	8.922-14	1.260-03	79	93	1.204+03	1.707-04	2.226-14	8.692-02
77	133	2.189+02	9.079-03	1.087-13	1.529-03	79	102	9.996+02	9.132-07	1.368-16	3.056-04
77	134	2.184+02	8.394-03	1.401-13	1.959-03	79	103	9.975+02	6.866-06	1.434-15	3.182-03
77	135	2.119+02	4.374-03	4.906-14	6.262-04	79	106	9.844+02	1.600-07	3.253-17	6.940-05
77	140	9.238+01	6.325+02	8.093-10	8.564-01	79	107	9.830+02	2.188-06	5.705-16	1.212-03
77	146	8.321+01	4.658-02	4.835-14	3.738-05	79	108	9.782+02	2.439-07	6.298-17	1.319-04
77	147	8.319+01	2.023-01	3.498-13	2.703-04	79	115	5.926+02	4.155-06	2.188-16	1.018-04
77	148	8.316+01	1.661-00	4.019-12	3.101-03	79	116	5.896+02	2.470-03	1.287-13	5.900-02
77	149	8.268+01	5.325-01	9.096-13	6.901-04	79	117	5.848+02	9.098-04	6.531-14	2.922-02
77	154	8.091+01	7.962-09	1.823-20	1.296-11	79	118	5.589+02	6.887-04	1.935-14	7.560-03
78	85	1.884+03	2.965-04	1.577-13	1.414-00	79	124	4.912+02	1.807-05	9.149-16	2.426-04
78	87	1.474+03	4.779-03	1.557-12	6.688-00	79	125	4.908+02	1.968-06	1.279-16	3.383-05

Table 5. Transition energies ($\AA$), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic quadrupole (M2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
79	126	4.902+02	1.611-06	1.045-16	2.753-05	80	139	2.147+02	6.235-03	4.307-14	1.334-03
79	128	3.714+02	7.181-05	2.970-16	3.402-05	80	143	9.240+01	3.697+01	2.028-11	5.011-02
79	129	3.697+02	2.784-04	3.423-15	3.868-04	80	144	9.208+01	3.236+02	2.938-10	7.184-01
79	130	3.597+02	1.576-03	3.057-14	3.182-03	80	145	9.188+01	8.430+02	4.572-10	1.110-00
79	131	3.534+02	4.541-04	5.101-15	5.036-04	80	150	8.486+01	9.861-03	7.604-15	1.455-05
79	136	2.142+02	4.570-03	3.144-14	6.915-04	80	151	8.485+01	1.473-03	1.589-15	3.041-06
79	137	2.141+02	1.866-02	1.796-13	3.944-03	80	152	8.484+01	3.928-01	5.450-13	1.042-03
79	138	2.139+02	1.653-02	2.041-13	4.470-03	80	153	8.478+01	6.337-02	6.828-14	1.303-04
79	139	2.134+02	2.239-04	2.141-15	4.656-05	81	85	2.230+03	3.081-05	2.297-14	3.419-01
79	142	9.223+01	1.241+03	3.165-10	5.553-01	81	87	1.678+03	1.465-03	6.183-13	3.920-00
79	143	9.218+01	5.828+02	4.454-10	7.802-01	81	89	1.603+03	2.133-04	1.370-13	7.574-01
79	144	9.186+01	1.774-00	2.244-12	3.891-03	81	90	1.596+03	3.178-05	2.832-14	1.545-01
79	145	9.165+01	3.266+01	2.468-11	4.249-02	81	91	1.537+03	4.729-04	2.792-13	1.361-00
79	150	8.467+01	7.385-03	7.937-15	1.077-05	81	92	1.503+03	2.535-02	2.004-11	9.130+01
79	151	8.466+01	9.405-03	1.415-14	1.920-05	81	93	1.271+03	2.063-02	4.994-12	1.375+01
79	152	8.464+01	1.218-01	2.354-13	3.193-04	81	102	1.045+03	1.132-06	3.088-16	4.730-04
79	153	8.458+01	1.226-02	1.841-14	2.493-05	81	103	1.043+03	3.804-06	1.447-15	2.201-03
80	85	2.150+03	8.613-06	2.559-15	7.967-02	81	106	1.028+03	1.292-06	4.782-16	6.981-04
80	87	1.632+03	1.348-04	2.308-14	3.143-01	81	115	6.083+02	1.184-04	1.095-14	3.307-03
80	88	1.582+03	3.243-02	1.565-11	1.943+02	81	116	6.051+02	1.269-03	1.161-13	3.453-02
80	89	1.562+03	5.315-03	1.388-12	1.655+01	81	117	6.001+02	4.452-06	5.609-16	1.627-04
80	90	1.555+03	8.532-05	3.092-14	3.638-01	81	118	5.729+02	1.216-02	5.984-13	1.510-01
80	91	1.499+03	2.295-03	5.520-13	5.821-00	81	124	5.019+02	8.330-06	7.342-16	1.246-04
80	92	1.466+03	3.099-02	9.989-12	9.862+01	81	129	3.757+02	1.395-03	2.953-14	2.102-03
80	93	1.244+03	1.390-03	1.383-13	8.345-01	81	130	3.654+02	1.091-03	3.640-14	2.384-03
80	102	1.027+03	1.820-07	2.057-17	6.980-05	81	131	3.589+02	7.526-06	1.453-16	9.019-06
80	103	1.025+03	2.560-08	4.032-18	1.359-05	81	136	2.162+02	2.281-03	2.665-14	3.617-04
80	104	1.017+03	2.194-09	5.347-19	1.762-06	81	137	2.161+02	4.698-04	7.678-15	1.041-04
80	106	1.011+03	2.515-06	3.855-16	1.248-03	81	139	2.154+02	1.525-05	2.475-16	3.321-06
80	107	1.010+03	5.622-06	1.105-15	3.560-03	81	143	9.255+01	2.043+02	2.623-10	2.790-01
80	108	1.005+03	3.898-07	7.583-17	2.408-04	81	144	9.222+01	2.094+02	4.451-10	4.685-01
80	109	1.003+03	2.247-06	5.323-16	1.681-03	81	145	9.202+01	1.866+01	2.369-11	2.477-02
80	115	6.022+02	3.238-04	1.258-14	8.600-03	81	150	8.498+01	5.868-03	1.059-14	8.720-06
80	116	5.991+02	2.283-03	8.775-14	5.909-02	81	151	8.497+01	7.726-04	1.951-15	1.607-06
80	117	5.941+02	3.176-04	1.681-14	1.104-02	81	153	8.490+01	1.425-01	3.593-13	2.951-04
80	118	5.675+02	3.036-05	6.281-16	3.594-04	82	84	2.421+03	7.303-08	1.283-17	4.070-04
80	124	4.978+02	8.667-06	3.219-16	1.244-04	82	85	2.351+03	2.087-05	1.038-14	3.018-01
80	125	4.974+02	2.481-04	1.183-14	4.559-03	82	86	1.803+03	1.168-06	1.139-16	1.493-03
80	126	4.968+02	4.799-06	2.283-16	8.762-05	82	87	1.746+03	1.692-03	4.638-13	5.519-00
80	127	4.963+02	8.372-06	4.858-16	1.859-04	82	88	1.689+03	8.737-03	6.725-12	7.245+01
80	129	3.734+02	1.104-02	9.892-14	1.612-02	82	89	1.665+03	1.483-02	6.161-12	6.360+01
80	130	3.632+02	9.901-03	1.399-13	2.098-02	82	90	1.657+03	3.072-05	1.771-14	1.803-01
80	131	3.568+02	8.837-07	7.228-18	1.028-06	82	91	1.594+03	5.879-03	2.239-12	2.028+01
80	136	2.155+02	1.881-06	9.354-18	2.930-07	82	92	1.557+03	8.899-03	4.529-12	3.825+01
80	137	2.154+02	6.944-03	4.829-14	1.511-03	82	93	1.309+03	3.471-02	5.351-12	2.685+01
80	138	2.152+02	1.379-01	1.231-12	3.839-02	82	102	1.071+03	2.110-07	3.629-17	9.970-05

Table 5. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic quadrupole (M2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
82	103	1.068+03	1.828-06	4.380-16	1.195-03	85	98	2.012+03	3.272-05	4.634-14	5.068-01
82	106	1.054+03	1.070-06	2.493-16	6.519-04	85	99	1.985+03	6.124-05	6.029-14	6.327-01
82	107	1.052+03	6.637-07	1.982-16	5.160-04	85	100	1.982+03	2.191-06	3.010-15	3.144-02
82	108	1.046+03	1.297-08	3.832-18	9.823-06	85	110	1.920+03	1.055-04	5.827-14	5.533-01
82	115	6.170+02	6.059-04	3.458-14	1.816-02	85	111	1.797+03	1.472-02	7.129-12	5.552+01
82	116	6.137+02	3.093-03	1.747-13	9.032-02	85	112	1.732+03	1.118-02	8.384-12	5.848+01
82	117	6.085+02	5.982-07	4.649-17	2.343-05	85	114	8.707+02	9.929-03	1.128-12	9.997-01
82	118	5.806+02	3.339-02	1.012-12	4.431-01	85	120	6.607+02	2.378-06	3.631-16	1.406-04
82	124	5.078+02	2.687-06	1.454-16	4.260-05	85	121	6.589+02	1.139-06	1.730-16	6.642-05
82	125	5.074+02	1.465-06	1.018-16	2.975-05	85	123	6.571+02	2.045-07	2.206-17	8.399-06
82	126	5.068+02	4.978-08	3.450-18	1.004-06	85	132	2.812+02	1.503-02	1.781-13	5.315-03
82	128	3.808+02	8.452-04	3.675-15	4.539-04	85	133	2.808+02	9.012-03	1.775-13	5.274-03
82	129	3.790+02	8.863-03	1.145-13	1.395-02	85	134	2.800+02	2.271-03	6.228-14	1.835-03
82	130	3.685+02	2.134-03	4.344-14	4.862-03	85	135	2.694+02	2.685-02	4.866-13	1.276-02
82	131	3.619+02	2.482-03	2.924-14	3.101-03	85	140	1.019+02	2.800-00	4.355-12	6.177-03
82	136	2.173+02	3.379-04	2.393-15	5.495-05	85	146	9.082+01	3.995-02	4.940-14	4.967-05
82	137	2.172+02	1.622-03	1.607-14	3.685-04	85	147	9.080+01	1.499-01	3.087-13	3.102-04
82	138	2.170+02	6.167-03	7.839-14	1.792-03	85	148	9.076+01	2.566-00	7.395-12	7.419-03
82	139	2.165+02	1.097-02	1.079-13	2.450-03	85	149	9.019+01	1.582-00	3.216-12	3.167-03
82	142	9.280+01	3.598-00	9.291-13	1.661-03	85	154	8.809+01	6.214-07	1.687-18	1.547-09
82	143	9.275+01	1.871+01	1.448-11	2.583-02	86	95	2.852+03	1.669-05	1.017-13	1.055-00
82	144	9.242+01	4.294+02	5.499-10	9.710-01	86	99	2.670+03	3.843-04	2.053-12	1.748+01
82	145	9.221+01	3.088+02	2.362-10	4.143-01	86	112	2.232+03	1.298-05	4.846-14	2.411-01
82	150	8.514+01	8.659-03	9.411-15	1.299-05	86	123	7.181+02	1.186-05	4.585-15	7.594-04
82	151	8.514+01	2.351-04	3.577-16	4.938-07	86	133	2.914+02	2.602-03	1.656-13	1.832-03
82	152	8.513+01	1.079-01	2.110-13	2.911-04	86	135	2.791+02	2.108-02	1.231-12	1.197-02
82	153	8.506+01	2.578-02	3.915-14	5.391-05	86	147	9.188+01	8.726+01	5.522-10	1.916-01
83	89	2.391+03	1.203-03	5.153-12	3.150+01	86	149	9.126+01	4.410+01	2.753-10	9.361-02
83	91	2.247+03	5.630-04	2.130-12	1.081+01	87	94	3.096+03	1.202-04	1.727-13	6.875-00
83	102	1.331+03	2.871-08	3.812-17	4.019-05	87	95	3.009+03	4.464-04	1.009-12	3.690+01
83	115	6.952+02	1.615-04	5.851-14	8.794-03	87	98	2.862+03	1.715-06	4.915-15	1.547-01
83	116	6.910+02	1.632-02	5.842-12	8.625-01	87	99	2.807+03	3.230-04	6.361-13	1.888+01
83	130	3.951+02	4.428-02	5.180-12	1.429-01	87	100	2.801+03	1.279-04	3.508-13	1.034+01
83	136	2.263+02	1.099-05	4.219-16	2.187-06	87	110	2.679+03	4.456-06	4.793-15	1.236-01
83	144	9.401+01	1.252+02	8.293-10	3.082-01	87	111	2.446+03	4.124-05	3.698-14	7.261-01
83	150	8.649+01	8.983-03	5.037-14	1.458-05	87	112	2.327+03	2.696-06	3.649-15	6.171-02
84	95	2.032+03	8.664-06	2.682-14	1.007-01	87	114	9.991+02	3.963-05	5.930-15	7.936-03
84	99	1.938+03	1.793-05	5.050-14	1.645-01	87	120	7.321+02	1.945-04	3.647-14	1.921-02
84	112	1.696+03	8.215-03	1.772-11	3.872+01	87	121	7.299+02	5.821-04	1.085-13	5.660-02
84	123	6.519+02	1.354-05	4.312-15	5.343-04	87	123	7.276+02	2.500-04	3.308-14	1.710-02
84	133	2.798+02	4.703-03	2.761-13	2.706-03	87	132	2.934+02	1.629-02	2.102-13	7.121-03
84	135	2.685+02	4.098-03	2.214-13	1.917-03	87	133	2.929+02	5.493-02	1.178-12	3.972-02
84	147	9.070+01	3.098-02	1.910-13	6.377-05	87	134	2.921+02	1.590-03	4.747-14	1.587-03
84	149	9.010+01	1.177-00	7.164-12	2.344-03	87	135	2.805+02	4.923-02	9.678-13	2.866-02
85	94	2.125+03	1.161-05	7.861-15	1.012-01	87	140	1.034+02	8.786-02	1.409-13	2.091-04
85	95	2.084+03	1.505-05	1.633-14	1.982-01	87	146	9.206+01	5.388+01	6.845-11	7.166-02

Table 5. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic quadrupole (M2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
87	147	9.203+01	1.576+02	3.335-10	3.489-01	89	135	2.827+02	6.762-02	8.101-13	4.094-02
87	148	9.199+01	4.380+01	1.296-10	1.355-01	89	140	1.037+02	1.635-01	1.582-13	3.947-04
87	149	9.141+01	1.349+02	2.817-10	2.888-01	89	141	1.028+02	3.246-01	1.028-13	2.496-04
87	154	8.925+01	3.346-04	9.325-16	8.897-07	89	146	9.229+01	8.050+01	6.168-11	1.085-01
88	95	3.194+03	1.707-06	1.451-15	1.902-01	89	147	9.227+01	9.725-00	1.241-11	2.181-02
88	96	3.165+03	1.580-03	2.900-12	3.702+02	89	148	9.223+01	2.646+02	4.723-10	8.288-01
88	97	3.164+03	8.622-06	1.294-14	1.649-00	89	149	9.164+01	1.965+02	2.474-10	4.259-01
88	98	3.029+03	8.770-05	9.385-14	1.051+01	89	154	8.947+01	2.877-04	4.834-16	7.744-07
88	99	2.968+03	1.911-06	1.401-15	1.475-01	89	155	8.947+01	8.726-06	1.885-17	3.020-08
88	100	2.960+03	1.754-05	1.793-14	1.873-00	89	157	8.946+01	9.459-04	2.043-15	3.271-06
88	101	2.930+03	7.732-04	9.952-13	1.008+02	90	94	3.419+03	2.734-06	2.054-15	2.571-01
88	112	2.436+03	4.053-07	2.004-16	1.167-02	90	95	3.313+03	2.172-05	2.554-14	2.909-00
88	120	7.426+02	2.642-06	1.699-16	2.800-04	90	96	3.282+03	1.998-04	5.071-13	5.617+01
88	121	7.403+02	8.748-06	5.590-16	9.131-04	90	97	3.281+03	9.897-05	2.054-13	2.271+01
88	122	7.398+02	1.106-04	9.075-15	1.479-02	90	98	3.137+03	8.370-05	1.235-13	1.194+01
88	123	7.380+02	4.754-07	2.156-17	3.490-05	90	99	3.071+03	1.111-05	1.122-14	1.017-00
88	133	2.946+02	1.373-02	9.922-14	1.021-02	90	100	3.063+03	5.802-05	8.160-14	7.344-00
88	134	2.937+02	2.433-02	2.448-13	2.498-02	90	101	3.030+03	1.828-04	3.236-13	2.820+01
88	135	2.820+02	1.708-02	1.132-13	1.022-02	90	110	2.918+03	1.204-08	6.586-18	5.123-04
88	147	9.220+01	2.331+02	1.650-10	5.207-01	90	111	2.643+03	1.533-06	6.881-16	3.980-02
88	148	9.215+01	2.265+02	2.243-10	7.068-01	90	112	2.505+03	4.560-06	3.065-15	1.509-01
88	149	9.157+01	5.535+02	3.866-10	1.195-00	90	114	1.031+03	3.493-05	2.383-15	8.168-03
88	154	8.940+01	3.623-04	3.376-16	9.714-07	90	120	7.489+02	1.795-05	1.509-15	1.985-03
88	155	8.941+01	1.904-04	2.281-16	6.564-07	90	121	7.465+02	4.451-04	3.719-14	4.845-02
88	156	8.939+01	5.026-04	7.359-16	2.116-06	90	122	7.460+02	8.889-04	9.535-14	1.240-01
88	157	8.939+01	1.753-03	2.100-15	6.038-06	90	123	7.442+02	1.713-05	1.016-15	1.312-03
89	94	3.387+03	1.341-05	1.384-14	1.202-00	90	132	2.960+02	8.485-04	4.777-15	3.880-04
89	95	3.283+03	5.096-04	8.233-13	6.515+01	90	133	2.956+02	3.222-04	3.014-15	2.437-04
89	97	3.251+03	5.125-06	1.461-14	1.123-00	90	134	2.947+02	4.900-03	6.381-14	5.115-03
89	98	3.109+03	7.411-04	1.504-12	1.011+02	90	135	2.829+02	6.533-05	5.600-16	3.971-05
89	99	3.044+03	2.175-04	3.022-13	1.908+01	90	140	1.037+02	1.303-01	9.012-14	3.151-04
89	100	3.037+03	7.462-05	1.444-13	9.049-00	90	146	9.232+01	8.521+02	4.666-10	1.150-00
89	101	3.005+03	1.832-04	4.465-13	2.710+01	90	147	9.229+01	2.013+02	1.836-10	4.521-01
89	110	2.894+03	4.284-08	3.228-17	1.750-03	90	148	9.225+01	1.380-00	1.760-12	4.327-03
89	111	2.624+03	3.558-06	2.203-15	8.902-02	90	149	9.167+01	1.458+02	1.311-10	3.164-01
89	112	2.488+03	2.280-05	2.116-14	7.289-01	90	154	8.950+01	1.505-03	1.807-15	4.056-06
89	113	1.993+03	4.599-04	5.479-14	9.706-01	90	155	8.950+01	2.365-02	3.651-14	8.196-05
89	114	1.028+03	1.639-04	1.556-14	3.777-02	90	156	8.948+01	5.081-03	9.584-15	2.150-05
89	119	8.765+02	3.828-03	8.818-14	1.328-01	90	157	8.948+01	6.153-02	9.496-14	2.130-04
89	120	7.473+02	1.414-05	1.658-15	1.548-03	91	94	3.724+03	2.338-05	2.917-14	3.371-00
89	121	7.450+02	2.437-03	2.839-13	2.625-01	91	95	3.599+03	1.315-06	2.554-15	2.664-01
89	122	7.444+02	4.620-04	6.909-14	6.376-02	91	97	3.561+03	5.110-05	1.749-13	1.766+01
89	123	7.427+02	2.541-05	2.101-15	1.925-03	91	98	3.392+03	4.618-07	1.115-15	9.733-02
89	132	2.958+02	1.051-03	8.271-15	4.787-04	91	99	3.315+03	1.396-04	2.299-13	1.872+01
89	133	2.953+02	9.379-02	1.226-12	7.065-02	91	100	3.306+03	2.907-05	6.667-14	5.387-00
89	134	2.945+02	8.572-02	1.560-12	8.911-02	91	101	3.268+03	4.030-04	1.161-12	9.063+01

Table 5. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic quadrupole (M2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
91	110	3.137+03	1.535-06	1.359-15	9.381-02	92	148	9.258+01	3.948+02	5.073-10	1.261-00
91	111	2.822+03	1.514-06	1.085-15	5.452-02	92	149	9.200+01	2.139+02	1.938-10	4.725-01
91	112	2.665+03	6.440-09	6.859-18	2.905-04	92	154	8.981+01	2.516-04	3.042-16	6.899-07
91	113	2.106+03	7.517-05	9.994-15	2.087-01	92	155	8.981+01	2.432-02	3.781-14	8.576-05
91	114	1.057+03	1.110-04	1.115-14	2.943-02	92	156	8.979+01	1.786-03	3.394-15	7.693-06
91	119	8.975+02	7.503-04	1.812-14	2.931-02	92	157	8.979+01	4.279-02	6.650-14	1.507-04
91	120	7.626+02	7.501-05	9.156-15	9.081-03	93	94	7.574+03	2.869-07	2.467-15	1.439-00
91	121	7.601+02	4.102-05	4.974-15	4.887-03	93	95	7.073+03	5.070-06	6.337-14	3.009+01
91	122	7.596+02	3.824-05	5.954-15	5.836-03	93	98	6.314+03	1.260-05	1.758-13	5.940+01
91	123	7.577+02	1.164-04	1.002-14	9.749-03	93	99	6.052+03	8.041-06	7.359-14	2.189+01
91	132	2.981+02	9.156-03	7.320-14	4.339-03	93	100	6.022+03	6.240-06	7.916-14	2.320+01
91	133	2.977+02	2.627-07	3.489-18	2.059-07	93	110	5.485+03	1.014-07	4.574-16	1.013-01
91	134	2.968+02	3.816-05	7.056-16	4.127-05	93	111	4.590+03	2.341-06	7.392-15	9.590-01
91	135	2.849+02	1.185-02	1.442-13	7.455-03	93	112	4.189+03	2.590-07	1.135-15	1.120-01
91	140	1.040+02	3.808-01	3.705-13	9.323-04	93	114	1.235+03	2.419-04	5.528-14	1.396-01
91	141	1.031+02	3.009-02	9.581-15	2.345-05	93	120	8.511+02	1.818-04	4.606-14	3.812-02
91	146	9.252+01	2.242+02	1.726-10	3.058-01	93	121	8.481+02	3.289-03	8.275-13	6.774-01
91	147	9.250+01	3.120+02	4.003-10	7.085-01	93	123	8.451+02	1.271-03	2.268-13	1.837-01
91	148	9.246+01	8.345+01	1.497-10	2.646-01	93	132	3.108+02	5.669-03	8.208-14	3.306-03
91	149	9.187+01	3.770+01	4.770-11	8.274-02	93	133	3.103+02	3.079-02	7.406-13	2.969-02
91	154	8.969+01	1.941-03	3.277-15	5.288-06	93	134	3.094+02	2.562-02	8.576-13	3.407-02
91	155	8.969+01	3.768-05	8.180-17	1.320-07	93	135	2.964+02	1.900-02	4.170-13	1.457-02
91	157	8.967+01	1.283-03	2.783-15	4.489-06	93	140	1.055+02	7.383-01	1.232-12	1.941-03
92	94	3.942+03	1.223-08	1.221-17	2.342-03	93	146	9.370+01	8.869-00	1.167-11	1.289-02
92	95	3.802+03	3.145-05	4.867-14	8.375-00	93	147	9.368+01	6.847+01	1.501-10	1.656-01
92	96	3.761+03	1.466-04	4.887-13	8.141+01	93	148	9.364+01	1.848+02	5.667-10	6.244-01
92	97	3.759+03	8.387-06	2.284-14	3.799-00	93	149	9.304+01	1.336-01	2.889-13	3.122-04
92	98	3.571+03	3.357-04	6.417-13	9.151+01	93	154	9.080+01	7.701-04	2.221-15	2.231-06
92	99	3.486+03	3.593-05	4.674-14	6.198-00	94	102	2.641+04	3.714-09	6.474-16	1.601+01
92	100	3.476+03	7.963-05	1.442-13	1.896+01	94	103	2.500+04	2.159-09	4.722-16	9.905-00
92	101	3.434+03	5.601-04	1.273-12	1.614+02	94	106	1.875+04	1.675-08	2.060-15	1.824+01
92	110	3.290+03	4.353-07	3.027-16	3.375-02	94	115	1.380+03	4.894-05	2.327-14	8.200-02
92	111	2.945+03	1.050-06	5.849-16	4.678-02	94	116	1.363+03	3.521-05	1.635-14	5.560-02
92	112	2.775+03	5.268-07	4.344-16	2.906-02	94	117	1.338+03	7.046-04	4.412-13	1.418-00
92	114	1.073+03	2.861-04	2.118-14	8.204-02	94	118	1.210+03	1.073-04	2.355-14	5.596-02
92	120	7.713+02	3.918-05	3.494-15	5.019-03	94	124	9.318+02	9.244-06	2.808-15	3.048-03
92	121	7.688+02	6.276-04	5.561-14	7.912-02	94	129	5.739+02	4.843-04	2.391-14	6.066-03
92	122	7.682+02	1.757-07	1.999-17	2.838-05	94	130	5.501+02	3.661-07	2.768-17	6.186-06
92	123	7.663+02	2.407-07	1.513-17	2.133-05	94	131	5.356+02	4.620-05	1.987-15	4.096-04
92	132	2.995+02	5.766-03	3.322-14	2.793-03	94	136	2.699+02	7.752-03	1.411-13	3.722-03
92	133	2.990+02	2.884-04	2.760-15	2.310-04	94	137	2.697+02	1.076-03	2.738-14	7.211-04
92	134	2.981+02	1.120-01	1.493-12	1.239-01	94	139	2.686+02	6.411-04	1.618-14	4.209-04
92	135	2.861+02	3.355-03	2.940-14	2.155-03	94	143	1.012+02	7.835-02	1.202-13	1.669-04
92	140	1.042+02	1.007-00	7.017-13	2.483-03	94	144	1.008+02	6.102-02	1.548-13	2.126-04
92	146	9.265+01	4.688-00	2.585-12	6.438-03	94	145	1.005+02	9.076-03	1.375-14	1.874-05
92	147	9.262+01	1.441+02	1.324-10	3.295-01	94	150	9.218+01	1.593+01	3.381-11	3.554-02

Table 5. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic quadrupole (M2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
94	151	9.217+01	1.853+02	5.507-10	5.787-01	96	152	9.226+01	1.918+02	2.002-10	7.735-01
94	153	9.208+01	4.484+01	1.330-10	1.393-01	96	153	9.218+01	5.350+02	4.338-10	1.672-00
95	102	3.507+04	3.359-10	6.195-17	5.977-00	97	102	3.918+04	2.396-12	3.064-19	7.417-02
95	103	3.263+04	7.947-09	1.776-15	1.380+02	97	103	3.615+04	1.355-12	2.065-19	3.928-02
95	106	2.274+04	1.695-10	1.840-17	4.839-01	97	104	2.846+04	4.300-09	6.382-16	5.924+01
95	107	2.202+04	2.431-09	3.181-16	7.598-00	97	105	2.705+04	4.627-09	7.334-16	5.846+01
95	108	1.985+04	1.491-09	1.586-16	2.776-00	97	106	2.440+04	5.135-10	3.564-17	2.084-00
95	115	1.398+03	1.980-07	5.797-17	3.539-04	97	107	2.357+04	1.802-10	1.501-17	7.912-01
95	116	1.381+03	3.321-04	9.493-14	5.591-01	97	108	2.110+04	6.491-09	4.334-16	1.640+01
95	117	1.355+03	3.600-04	1.387-13	7.715-01	97	109	2.034+04	1.135-09	8.608-17	2.918-00
95	118	1.224+03	8.290-04	1.117-13	4.577-01	97	115	1.403+03	6.747-06	1.107-15	1.232-02
95	124	9.400+02	2.322-05	4.305-15	7.997-03	97	116	1.387+03	2.012-06	3.221-16	3.457-03
95	125	9.385+02	2.387-05	5.675-15	1.049-02	97	117	1.360+03	9.399-08	2.028-17	2.056-04
95	126	9.363+02	8.408-06	1.989-15	3.652-03	97	124	9.426+02	3.063-07	3.174-17	1.070-04
95	128	5.811+02	4.863-04	4.924-15	2.161-03	97	125	9.412+02	1.364-06	1.812-16	6.081-04
95	129	5.770+02	1.968-03	5.893-14	2.532-02	97	126	9.390+02	2.568-06	3.394-16	1.131-03
95	130	5.530+02	1.877-03	8.603-14	3.254-02	97	127	9.372+02	7.991-06	1.286-15	4.263-03
95	131	5.383+02	6.696-03	1.745-13	6.087-02	97	130	5.539+02	2.186-06	5.586-17	3.822-05
95	136	2.706+02	8.518-03	9.349-14	4.142-03	97	136	2.708+02	1.621-04	9.899-16	7.914-05
95	137	2.704+02	1.103-02	1.694-13	7.491-03	97	137	2.706+02	7.718-04	6.591-15	5.260-04
95	138	2.701+02	5.247-03	1.033-13	4.552-03	97	138	2.703+02	1.374-04	1.505-15	1.197-04
95	139	2.693+02	2.957-02	4.500-13	1.966-02	97	139	2.695+02	4.053-06	3.433-17	2.705-06
95	142	1.013+02	5.481-01	1.687-13	3.923-04	97	144	1.009+02	2.889-03	2.449-15	1.013-05
95	143	1.012+02	2.944-02	2.714-14	6.301-05	97	150	9.228+01	7.367+02	5.225-10	1.653-00
95	144	1.009+02	1.579-02	2.408-14	5.527-05	97	151	9.228+01	2.182+02	2.167-10	6.854-01
95	145	1.006+02	1.863-02	1.696-14	3.864-05	97	152	9.226+01	5.874-00	7.495-12	2.370-02
95	150	9.226+01	4.448+01	5.675-11	9.967-02	97	153	9.219+01	3.580+01	3.547-11	1.119-01
95	151	9.225+01	8.700+01	1.554-10	2.729-01	98	102	8.677+04	2.468-13	1.990-19	4.071-01
95	152	9.223+01	1.834+02	4.211-10	7.390-01	98	103	7.320+04	6.132-11	4.926-17	6.052+01
95	153	9.216+01	7.140+01	1.273-10	2.229-01	98	104	4.732+04	2.612-12	1.378-18	4.570-01
96	103	3.597+04	4.812-12	5.939-19	1.360-01	98	106	3.705+04	4.384-12	9.023-19	1.437-01
96	104	2.835+04	1.049-10	1.264-17	1.417-00	98	107	3.518+04	5.252-09	1.253-15	1.708+02
96	105	2.695+04	3.110-08	4.002-15	3.855+02	98	108	2.996+04	2.669-10	4.616-17	3.886-00
96	106	2.431+04	6.696-12	3.776-19	2.671-02	98	109	2.844+04	1.791-09	3.414-16	2.460+01
96	107	2.349+04	1.048-09	7.096-17	4.527-00	98	115	1.432+03	3.061-08	6.718-18	6.171-05
96	108	2.104+04	1.822-10	9.896-18	4.537-01	98	116	1.414+03	3.395-06	7.270-16	6.437-03
96	109	2.028+04	2.600-08	1.604-15	6.588+01	98	117	1.387+03	3.464-05	9.987-15	8.341-02
96	117	1.360+03	3.321-06	5.861-16	7.256-03	98	118	1.250+03	1.183-03	1.187-13	7.252-01
96	124	9.425+02	1.021-06	8.653-17	3.565-04	98	124	9.552+02	4.796-08	6.560-18	1.790-05
96	125	9.410+02	6.837-07	7.427-17	3.045-04	98	125	9.537+02	8.048-05	1.411-14	3.833-02
96	126	9.388+02	7.410-09	8.011-19	3.262-06	98	126	9.515+02	6.196-06	1.081-15	2.916-03
96	127	9.371+02	5.976-06	7.867-16	3.185-03	98	127	9.497+02	2.379-05	5.055-15	1.356-02
96	137	2.706+02	6.513-04	4.550-15	4.438-04	98	129	5.827+02	5.492-04	1.198-14	7.422-03
96	138	2.703+02	8.487-04	7.606-15	7.391-04	98	130	5.582+02	5.123-03	1.710-13	9.313-02
96	139	2.695+02	1.167-03	8.086-15	7.789-04	98	131	5.432+02	5.216-03	9.889-14	4.965-02
96	151	9.227+01	1.675+02	1.361-10	5.260-01	98	136	2.718+02	1.174-03	9.285-15	5.840-04

Table 5. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic quadrupole (M2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
98	137	2.717+02	3.077-02	3.404-13	2.137-02	100	116	1.430+03	6.286-06	1.376-15	1.259-02
98	138	2.713+02	5.837-03	8.283-14	5.181-03	100	117	1.402+03	3.541-08	1.043-17	8.995-05
98	139	2.705+02	4.279-02	4.695-13	2.911-02	100	118	1.262+03	1.570-04	1.606-14	1.010-01
98	143	1.014+02	1.424-01	9.408-14	3.073-04	100	124	9.623+02	3.075-05	4.269-15	1.191-02
98	144	1.010+02	4.153-03	4.540-15	1.466-05	100	125	9.608+02	2.293-06	4.080-16	1.133-03
98	145	1.008+02	4.530-01	2.957-13	9.478-04	100	126	9.585+02	1.159-05	2.052-15	5.659-03
98	150	9.240+01	5.336+01	4.879-11	1.205-01	100	127	9.567+02	3.550-06	7.655-16	2.099-03
98	151	9.239+01	1.585-00	2.029-12	5.011-03	100	129	5.853+02	3.651-04	8.037-15	5.047-03
98	152	9.238+01	3.789+02	6.233-10	1.539-00	100	130	5.606+02	1.908-04	6.422-15	3.544-03
98	153	9.231+01	1.590+02	2.031-10	5.003-01	100	131	5.455+02	4.501-04	8.606-15	4.375-03
99	102	2.146+05	5.879-14	4.057-19	8.964-00	100	136	2.724+02	6.143-03	4.881-14	3.089-03
99	103	1.471+05	7.908-13	3.593-18	2.560+01	100	137	2.722+02	6.206-03	6.895-14	4.356-03
99	106	4.969+04	1.491-10	7.727-17	2.120+01	100	138	2.719+02	4.746-06	6.763-17	4.257-06
99	107	4.638+04	3.416-10	1.983-16	4.424+01	100	139	2.711+02	2.008-02	2.212-13	1.380-02
99	108	3.771+04	6.056-10	2.324-16	2.787+01	100	143	1.015+02	2.210-01	1.463-13	4.789-04
99	115	1.446+03	9.979-06	3.127-15	2.114-02	100	144	1.011+02	3.528-02	3.863-14	1.250-04
99	116	1.428+03	7.768-06	2.375-15	1.546-02	100	145	1.009+02	1.622-01	1.060-13	3.406-04
99	117	1.400+03	5.497-06	2.262-15	1.388-02	100	150	9.247+01	2.919+02	2.673-10	6.617-01
99	118	1.260+03	6.150-04	8.789-14	3.937-01	100	151	9.246+01	3.133+02	4.015-10	9.938-01
99	124	9.615+02	9.475-07	1.838-16	3.655-04	100	152	9.244+01	5.758+01	9.484-11	2.346-01
99	125	9.600+02	3.787-06	9.419-16	1.864-03	100	153	9.237+01	2.811+01	3.596-11	8.874-02
99	126	9.577+02	7.146-06	1.769-15	3.475-03	101	102	2.966+06	1.830-24	1.341-27	1.410-04
99	128	5.893+02	2.554-03	2.659-14	1.217-02	101	103	4.044+05	1.171-15	2.233-20	5.945-00
99	129	5.850+02	3.246-04	9.995-15	4.477-03	101	104	1.005+05	2.139-13	3.961-19	1.620-00
99	130	5.604+02	4.242-04	1.997-14	7.860-03	101	105	8.491+04	9.126-12	1.425-17	3.512+01
99	131	5.453+02	2.300-03	6.151-14	2.231-02	101	106	6.329+04	5.311-13	2.481-19	2.532-01
99	136	2.723+02	2.028-02	2.255-13	1.018-02	101	107	5.801+04	1.922-10	9.695-17	7.620+01
99	137	2.722+02	2.702-03	4.200-14	1.894-03	101	108	4.505+04	4.574-11	1.392-17	5.125-00
99	138	2.718+02	1.145-02	2.284-13	1.026-02	101	109	4.172+04	2.613-09	8.335-16	2.437+02
99	139	2.710+02	3.126-02	4.820-13	2.147-02	101	115	1.455+03	8.592-06	1.515-15	1.878-02
99	142	1.016+02	3.549-01	1.097-13	2.571-04	101	116	1.437+03	3.463-05	5.955-15	7.111-02
99	143	1.015+02	5.516-02	5.111-14	1.195-04	101	117	1.409+03	7.588-07	1.756-16	1.976-03
99	144	1.011+02	4.307-03	6.601-15	1.526-05	101	124	9.655+02	6.636-09	7.214-19	2.614-06
99	145	1.009+02	5.667-02	5.185-14	1.190-04	101	125	9.640+02	7.800-05	1.087-14	3.920-02
99	150	9.246+01	6.627+01	8.493-11	1.502-01	101	126	9.617+02	4.423-07	6.132-17	2.196-04
99	151	9.245+01	2.076+02	3.725-10	6.585-01	101	127	9.599+02	3.927-05	6.629-15	2.360-02
99	152	9.244+01	1.028+02	2.370-10	4.187-01	101	130	5.617+02	2.859-04	7.515-15	5.363-03
99	153	9.236+01	2.276+01	4.075-11	7.183-02	101	136	2.726+02	9.404-05	5.822-16	4.751-05
100	102	2.602+05	5.588-15	4.052-20	2.235-00	101	137	2.725+02	3.114-03	2.696-14	2.196-03
100	103	1.672+05	2.049-14	8.591-20	1.259-00	101	138	2.722+02	6.347-02	7.048-13	5.721-02
100	104	7.433+04	1.165-11	1.517-17	1.951+01	101	139	2.714+02	4.711-03	4.044-14	3.253-03
100	106	5.180+04	1.143-10	4.596-17	2.000+01	101	144	1.012+02	3.387-01	2.886-13	1.203-03
100	107	4.821+04	4.201-12	1.882-18	6.601-01	101	150	9.250+01	9.528-00	6.790-12	2.163-02
100	108	3.891+04	5.604-10	1.635-16	3.016+01	101	151	9.249+01	6.620+01	6.603-11	2.104-01
100	109	3.640+04	1.262-09	3.937-16	5.945+01	101	152	9.247+01	3.530+02	4.526-10	1.441-00
100	115	1.447+03	5.669-08	1.272-17	1.208-04	101	153	9.240+01	3.050+02	3.037-10	9.646-01

Table 5. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic quadrupole (M2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
102	110	8.056+04	6.669-13	3.894-19	4.554-01	104	122	9.994+02	5.395-08	6.610-18	3.247-05
102	111	2.084+04	4.015-11	1.568-18	3.172-02	104	134	3.275+02	7.183-06	7.352-17	1.271-05
102	112	1.453+04	1.482-10	4.690-18	3.219-02	104	148	9.524+01	1.628-05	1.408-17	5.987-08
102	113	5.933+03	5.633-11	5.946-20	2.778-05	104	154	9.230+01	6.750+02	5.487-10	2.123-00
102	114	1.562+03	8.639-11	1.897-20	1.618-07	104	155	9.230+01	2.050+02	2.143-10	8.292-01
102	119	1.238+03	2.661-09	1.223-19	5.187-07	104	156	9.229+01	7.256-00	9.265-12	3.584-02
102	120	9.950+02	2.040-06	4.238-16	9.338-04	104	157	9.229+01	4.321-00	4.514-12	1.746-02
102	121	9.909+02	3.144-07	6.478-17	1.410-04	105	122	1.001+03	2.654-06	2.762-16	1.612-03
102	122	9.899+02	5.998-07	1.586-16	3.442-04	105	155	9.232+01	5.090-01	4.502-13	2.060-03
102	123	9.868+02	1.134-05	1.656-15	3.559-03	105	156	9.230+01	1.613+02	1.744-10	7.974-01
102	132	3.281+02	2.809-03	2.720-14	2.149-03	105	157	9.230+01	6.567+02	5.807-10	2.656-00
102	133	3.275+02	9.544-04	1.535-14	1.207-03	110	106	3.277+05	2.851-16	1.071-20	5.061-01
102	134	3.265+02	5.364-05	1.200-15	9.345-05	106	111	3.074+04	6.139-12	3.727-19	3.391-02
102	135	3.121+02	1.601-04	2.338-15	1.590-04	106	112	1.874+04	1.210-13	4.550-21	9.381-05
102	140	1.074+02	3.626-06	3.764-18	1.044-08	106	114	1.601+03	5.792-10	9.540-20	1.226-06
102	141	1.064+02	5.159-07	1.752-19	4.721-10	106	120	1.011+03	1.540-05	2.358-15	7.622-03
102	146	9.522+01	9.950-03	8.115-15	1.567-05	106	121	1.006+03	1.106-06	1.679-16	5.358-04
102	147	9.520+01	4.940-06	6.711-18	1.295-08	106	122	1.005+03	2.074-06	4.040-16	1.285-03
102	148	9.515+01	7.895-04	1.500-15	2.891-06	106	123	1.002+03	6.638-06	7.137-16	2.249-03
102	149	9.453+01	1.458-05	1.954-17	3.691-08	106	132	3.298+02	1.084-02	7.574-14	8.506-03
102	154	9.222+01	1.015+01	1.811-11	3.177-02	106	133	3.292+02	3.783-04	4.390-15	4.905-04
102	155	9.222+01	2.780+02	6.381-10	1.120-00	106	134	3.282+02	9.860-07	1.592-17	1.762-06
102	157	9.220+01	3.030-00	6.950-12	1.219-02	106	135	3.136+02	5.987-07	6.305-18	6.089-07
103	110	9.731+04	1.460-13	8.885-20	2.564-01	106	140	1.076+02	1.001-05	7.448-18	2.906-08
103	111	2.181+04	1.433-11	4.379-19	1.422-02	106	146	9.536+01	2.939-02	1.717-14	4.663-05
103	112	1.500+04	1.730-09	4.166-17	4.400-01	106	147	9.534+01	3.200-02	3.115-14	8.452-05
103	114	1.568+03	5.263-09	8.309-19	1.002-05	106	148	9.529+01	1.821-03	2.479-15	6.716-06
103	120	9.971+02	4.545-07	6.775-17	2.103-04	106	149	9.467+01	1.457-04	1.398-16	3.716-07
103	121	9.930+02	6.211-05	9.181-15	2.815-02	106	154	9.235+01	1.164+02	1.489-10	3.672-01
103	122	9.920+02	1.988-05	3.771-15	1.153-02	106	155	9.235+01	4.193+02	6.894-10	1.701-00
103	123	9.889+02	1.945-05	2.037-15	6.168-03	106	156	9.234+01	8.966-00	1.801-11	4.440-02
103	132	3.283+02	1.347-04	9.328-16	1.034-04	106	157	9.233+01	8.716-02	1.432-13	3.531-04
103	133	3.278+02	3.038-03	3.496-14	3.855-03	107	112	1.926+04	2.046-11	6.322-19	1.819-02
103	134	3.267+02	7.330-04	1.173-14	1.281-03	107	120	1.012+03	2.210-09	2.639-19	1.101-06
103	135	3.123+02	1.054-03	1.101-14	1.050-03	107	121	1.008+03	1.197-06	1.417-16	5.838-04
103	140	1.074+02	5.232-05	3.881-17	1.508-07	107	122	1.007+03	4.163-05	6.327-15	2.599-02
103	146	9.524+01	5.263-02	3.068-14	8.298-05	107	123	1.004+03	4.884-06	4.096-16	1.667-03
103	147	9.521+01	1.027-01	9.965-14	2.694-04	107	133	3.294+02	5.749-03	5.195-14	7.473-03
103	148	9.517+01	3.912-03	5.311-15	1.434-05	107	134	3.283+02	7.180-04	9.025-15	1.286-03
103	149	9.455+01	3.531-03	3.380-15	8.946-06	107	135	3.138+02	2.415-05	1.980-16	2.462-05
103	154	9.224+01	9.573-00	1.221-11	3.001-02	107	147	9.535+01	3.927-02	2.974-14	1.038-04
103	155	9.224+01	3.355+01	5.503-11	1.352-01	107	148	9.530+01	1.678-01	1.777-13	6.193-04
103	156	9.222+01	2.784+02	5.579-10	1.370-00	107	149	9.468+01	1.087-02	8.119-15	2.774-05
103	157	9.222+01	6.432-02	1.054-13	2.590-04	107	154	9.236+01	3.375+01	3.357-11	1.065-01
104	120	1.005+03	6.558-06	6.315-16	3.151-03	107	155	9.237+01	2.592+01	3.315-11	1.052-01
104	121	1.000+03	2.149-07	2.052-17	1.011-04	107	156	9.235+01	5.427+02	8.480-10	2.689-00

Table 5. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic quadrupole (M2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
107	157	9.235+01	1.168+02	1.493-10	4.734-01	111	124	1.013+03	7.572-07	2.717-16	3.788-04
108	112	2.130+04	1.359-11	5.132-19	1.995-02	111	129	6.036+02	2.345-04	1.281-14	3.781-03
108	120	1.017+03	4.485-07	5.411-17	2.292-04	111	130	5.774+02	4.885-03	4.069-13	1.051-01
108	121	1.013+03	2.168-06	2.593-16	1.084-03	111	131	5.614+02	1.854-02	8.760-13	2.080-01
108	122	1.012+03	2.733-07	4.194-17	1.749-04	111	136	2.763+02	9.904-04	1.889-14	5.346-04
108	123	1.008+03	1.836-05	1.555-15	6.424-03	111	137	2.761+02	3.536-05	9.432-16	2.665-05
108	133	3.299+02	3.122-03	2.830-14	4.091-03	111	139	2.750+02	1.888-04	4.993-15	1.393-04
108	134	3.289+02	6.290-04	7.932-15	1.136-03	111	143	1.020+02	4.595-00	7.171-12	1.022-02
108	135	3.142+02	2.389-03	1.964-14	2.454-03	111	144	1.017+02	9.742-00	2.515-11	3.544-02
108	147	9.539+01	4.602-03	3.488-15	1.219-05	111	145	1.014+02	5.186-00	7.992-12	1.118-02
108	148	9.535+01	6.052-05	6.415-17	2.239-07	111	150	9.291+01	1.060-01	2.287-13	2.461-04
108	149	9.473+01	2.796-02	2.090-14	7.152-05	111	151	9.290+01	2.113-01	6.380-13	6.866-04
108	154	9.241+01	3.308+02	3.293-10	1.046-00	111	153	9.282+01	3.944-01	1.189-12	1.276-03
108	155	9.241+01	3.246+02	4.155-10	1.320-00	112	115	1.618+03	1.181-08	4.634-18	4.387-05
108	156	9.239+01	3.897+01	6.095-11	1.936-01	112	116	1.595+03	1.291-02	4.926-12	4.474+01
108	157	9.239+01	7.625-00	9.757-12	3.098-02	112	117	1.561+03	4.147-02	2.120-11	1.803+02
109	120	1.019+03	5.513-06	5.461-16	2.843-03	112	118	1.389+03	3.209-06	5.571-16	3.341-03
109	121	1.015+03	3.128-05	3.073-15	1.579-02	112	124	1.035+03	7.919-06	1.779-15	4.407-03
109	122	1.014+03	3.271-06	4.123-16	2.113-03	112	125	1.033+03	1.173-07	3.378-17	8.327-05
109	134	3.290+02	8.467-03	8.746-14	1.533-02	112	126	1.030+03	5.890-08	1.687-17	4.126-05
109	148	9.536+01	1.339-02	1.162-14	4.959-05	112	128	6.160+02	8.990-03	1.023-13	5.346-02
109	154	9.242+01	1.158+01	9.440-12	3.667-02	112	129	6.113+02	1.374-03	4.618-14	2.360-02
109	155	9.242+01	1.002-00	1.050-12	4.080-03	112	130	5.844+02	1.038-03	5.316-14	2.374-02
109	156	9.241+01	3.351+02	4.291-10	1.666-00	112	131	5.680+02	7.012-04	2.035-14	8.344-03
109	157	9.240+01	3.820+02	4.001-10	1.553-00	112	136	2.779+02	3.346-04	3.874-15	1.859-04
110	115	1.482+03	9.275-04	5.092-13	2.226-00	112	137	2.777+02	1.760-02	2.850-13	1.366-02
110	116	1.464+03	8.130-03	4.351-12	1.831+01	112	138	2.774+02	2.157-03	4.478-14	2.138-03
110	117	1.434+03	1.078-02	7.759-12	3.073+01	112	139	2.765+02	1.875-02	3.010-13	1.424-02
110	118	1.288+03	3.200-03	7.961-13	2.284-00	112	142	1.023+02	4.386-00	1.377-12	3.299-03
110	124	9.775+02	2.623-07	8.768-17	1.099-04	112	143	1.022+02	5.613-01	5.280-13	1.263-03
110	129	5.909+02	3.180-07	1.665-17	4.611-06	112	144	1.019+02	1.232-01	1.917-13	4.531-04
110	130	5.658+02	9.062-04	7.248-14	1.762-02	112	145	1.016+02	4.866-02	4.519-14	1.060-04
110	131	5.504+02	8.175-03	3.713-13	8.308-02	112	150	9.309+01	1.871-01	2.430-13	4.386-04
110	136	2.736+02	6.488-03	1.214-13	3.336-03	112	151	9.308+01	3.913-02	7.117-14	1.284-04
110	137	2.734+02	1.163-04	3.041-15	8.343-05	112	152	9.307+01	6.945-01	1.623-12	2.927-03
110	139	2.723+02	4.516-03	1.171-13	3.173-03	112	153	9.300+01	1.913-00	3.473-12	6.247-03
110	143	1.017+02	2.574-01	3.988-13	5.624-04	113	115	1.929+03	1.698-04	4.735-13	1.520-00
110	144	1.013+02	2.334-00	5.983-12	8.341-03	113	116	1.897+03	1.862-03	5.024-12	1.534+01
110	145	1.010+02	2.184-01	3.342-13	4.626-04	113	130	6.206+02	9.397-03	2.713-12	2.901-01
110	150	9.261+01	6.160-01	1.320-12	1.407-03	113	136	2.858+02	5.005-06	3.065-16	3.201-06
110	151	9.260+01	4.550-00	1.365-11	1.454-02	113	144	1.029+02	1.682-01	1.335-12	6.509-04
110	153	9.251+01	2.200-00	6.585-12	6.996-03	113	150	9.396+01	6.977-03	4.617-14	1.714-05
111	115	1.565+03	6.325-06	3.870-15	1.990-02	114	115	2.128+04	8.032-13	9.088-20	1.175-03
111	116	1.544+03	3.262-02	1.943-11	9.597+01	114	116	1.798+04	3.355-09	2.709-16	2.113-00
111	117	1.512+03	9.809-03	7.840-12	3.634+01	114	117	1.438+04	8.686-10	6.285-17	2.510-01
111	118	1.350+03	2.355-07	6.435-17	2.125-04	114	118	6.728+03	3.441-09	2.335-17	9.543-03

Table 5. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic quadrupole (M2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
114	124	2.530+03	5.743-11	1.285-19	2.792-06	116	154	9.854+01	5.941-05	1.211-16	2.592-07
114	129	9.393+02	8.712-03	1.152-12	1.282-00	116	155	9.854+01	4.221-06	1.106-17	2.368-08
114	130	8.773+02	1.271-01	2.445-11	2.216+01	116	157	9.852+01	1.121-03	2.937-15	6.282-06
114	131	8.409+02	2.493-01	2.643-11	2.109+01	117	120	3.385+03	2.326-07	3.995-16	4.851-02
114	136	3.303+02	1.400-08	3.818-19	1.847-08	117	121	3.337+03	2.060-04	3.440-13	4.003+01
114	137	3.301+02	7.755-09	2.956-19	1.427-08	117	122	3.327+03	1.362-03	2.906-12	3.350+02
114	139	3.284+02	3.913-07	1.477-17	7.020-07	117	123	3.291+03	3.423-08	3.971-17	4.433-03
114	143	1.086+02	3.472+01	6.138-11	1.055-01	117	132	4.277+02	7.358-03	8.647-14	2.118-02
114	144	1.082+02	2.917+02	8.525-10	1.447-00	117	133	4.267+02	7.433-03	1.449-13	3.526-02
114	145	1.079+02	3.898+02	6.799-10	1.145-00	117	134	4.250+02	7.316-03	1.981-13	4.760-02
114	150	9.832+01	5.048-05	1.219-16	1.555-07	117	135	4.009+02	6.014-03	1.035-13	2.088-02
114	151	9.831+01	7.222-06	2.442-17	3.114-08	117	140	1.163+02	2.477-01	2.153-13	1.060-03
114	153	9.821+01	3.100-04	1.046-15	1.330-06	117	146	1.021+02	1.804-00	1.209-12	4.030-03
115	119	8.279+03	2.631-09	5.409-18	6.866-03	117	147	1.021+02	8.667-01	9.674-13	3.223-03
115	120	3.145+03	1.832-04	3.803-13	2.646+01	117	148	1.020+02	2.547-02	3.975-14	1.323-04
115	121	3.104+03	5.029-05	1.017-13	6.800-00	117	149	1.013+02	1.368-01	1.504-13	4.900-04
115	122	3.095+03	3.074-04	7.945-13	5.267+01	117	154	9.868+01	4.805-03	7.014-15	2.110-05
115	123	3.064+03	7.551-05	1.063-13	6.839-00	117	155	9.868+01	1.168-02	2.192-14	6.596-05
115	132	4.236+02	2.851-04	4.602-15	7.823-04	117	156	9.866+01	4.058-02	9.305-14	2.798-04
115	133	4.227+02	1.194-03	3.196-14	5.398-03	117	157	9.866+01	8.492-02	1.593-13	4.791-04
115	134	4.209+02	3.779-03	1.405-13	2.344-02	118	120	4.622+03	5.428-06	4.057-14	5.376-00
115	135	3.973+02	2.602-05	6.156-16	8.633-05	118	121	4.534+03	3.643-05	2.619-13	3.277+01
115	140	1.160+02	2.565-03	3.103-15	1.083-05	118	123	4.450+03	2.646-05	1.309-13	1.548+01
115	141	1.148+02	1.788-02	7.068-15	2.392-05	118	132	4.426+02	2.777-05	8.157-16	9.494-05
115	146	1.019+02	1.957-02	1.827-14	4.322-05	118	133	4.416+02	1.465-03	7.141-14	8.254-03
115	147	1.019+02	9.070-02	1.411-13	3.335-04	118	134	4.397+02	1.783-02	1.206-12	1.376-01
115	148	1.018+02	8.820-02	1.919-13	4.528-04	118	135	4.140+02	1.524-03	6.525-14	6.213-03
115	149	1.011+02	3.661-03	5.610-15	1.296-05	118	140	1.174+02	2.159-02	4.459-14	9.676-05
115	154	9.846+01	2.719-04	5.532-16	1.181-06	118	146	1.029+02	7.849-02	1.247-13	1.826-04
115	155	9.846+01	3.521-05	9.212-17	1.967-07	118	147	1.029+02	5.727-02	1.516-13	2.218-04
115	157	9.844+01	7.100-05	1.857-16	3.961-07	118	148	1.029+02	2.397-00	8.875-12	1.297-02
116	119	8.916+03	5.284-08	1.260-16	1.997-01	118	149	1.022+02	3.024-01	7.884-13	1.128-03
116	120	3.233+03	1.934-06	4.241-15	3.205-01	118	154	9.945+01	5.523-04	1.911-15	2.523-06
116	121	3.189+03	1.552-03	3.314-12	2.404+02	119	130	1.029+03	3.825-02	3.034-11	1.478+01
116	122	3.180+03	1.368-04	3.732-13	2.683+01	119	136	3.497+02	6.595-08	6.046-18	1.157-07
116	123	3.147+03	4.407-09	6.543-18	4.563-04	119	144	1.102+02	2.107+02	1.916-09	1.146-00
116	132	4.251+02	5.862-06	9.530-17	1.638-05	119	150	9.997+01	1.862-06	1.395-17	6.233-09
116	133	4.242+02	1.967-04	5.308-15	9.063-04	120	124	3.294+04	3.748-10	6.097-17	6.824-00
116	134	4.225+02	8.966-02	3.358-12	5.664-01	120	125	3.128+04	3.255-10	6.141-17	5.887-00
116	135	3.986+02	1.693-04	4.034-15	5.716-04	120	126	2.900+04	4.197-09	6.805-16	5.198+01
116	140	1.161+02	2.542-00	3.082-12	1.079-02	120	127	2.743+04	3.599-09	6.378-16	4.121+01
116	141	1.149+02	2.021-02	8.001-15	2.716-05	120	129	1.429+03	3.019-06	3.963-16	3.624-03
116	146	1.020+02	7.456-02	6.974-14	1.654-04	120	130	1.291+03	1.478-06	2.635-16	1.774-03
116	147	1.019+02	4.143-01	6.455-13	1.530-03	120	131	1.213+03	1.525-06	1.442-16	8.063-04
116	148	1.019+02	6.875-01	1.498-12	3.545-03	120	136	3.756+02	1.619-05	2.446-16	4.059-05
116	149	1.012+02	3.312-05	5.083-17	1.178-07	120	137	3.753+02	1.835-03	3.874-14	6.413-03

Table 5. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic quadrupole (M2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
120	138	3.747+02	2.036-04	5.510-15	9.076-04	123	130	1.305+03	5.920-07	1.511-16	7.505-04
120	139	3.731+02	1.831-03	3.822-14	6.218-03	123	131	1.226+03	6.544-06	8.843-16	3.642-03
120	143	1.131+02	6.833-02	5.614-14	2.542-04	123	136	3.768+02	8.437-04	1.796-14	2.148-03
120	144	1.126+02	7.221-03	9.803-15	4.382-05	123	137	3.765+02	2.651-03	7.888-14	9.416-03
120	145	1.123+02	4.016-02	3.253-14	1.442-04	123	138	3.759+02	2.534-03	9.661-14	1.147-02
120	150	1.020+02	1.709-02	1.903-14	6.320-05	123	139	3.743+02	9.159-03	2.694-13	3.160-02
120	151	1.020+02	6.881-02	1.073-13	3.562-04	123	142	1.133+02	1.131-01	4.351-14	1.414-04
120	152	1.019+02	4.955-02	9.927-14	3.294-04	123	143	1.132+02	7.912-02	9.117-14	2.957-04
120	153	1.019+02	5.017-03	7.804-15	2.583-05	123	144	1.127+02	2.172-02	4.137-14	1.325-04
121	124	3.824+04	1.278-13	2.801-20	4.905-03	123	145	1.124+02	4.329-04	4.919-16	1.562-06
121	125	3.603+04	7.254-09	1.815-15	2.657+02	123	150	1.021+02	1.970-01	3.077-13	7.318-04
121	126	3.304+04	3.871-10	8.143-17	9.192-00	123	151	1.021+02	4.140-01	9.050-13	2.152-03
121	127	3.101+04	6.973-10	1.579-16	1.474+01	123	152	1.020+02	8.692-01	2.442-12	5.804-03
121	129	1.438+03	5.837-05	7.755-15	7.221-02	123	153	1.019+02	7.190-07	1.569-18	3.718-09
121	130	1.298+03	4.232-04	7.632-14	5.222-01	124	132	4.969+02	7.312-04	1.160-14	4.457-03
121	131	1.219+03	1.120-04	1.070-14	6.077-02	124	133	4.956+02	8.075-04	2.124-14	8.098-03
121	136	3.762+02	4.725-08	7.161-19	1.194-07	124	134	4.932+02	7.179-05	2.619-15	9.841-04
121	137	3.759+02	1.390-03	2.945-14	4.898-03	124	135	4.611+02	4.843-06	1.103-16	3.384-05
121	138	3.753+02	1.776-02	4.821-13	7.978-02	124	140	1.209+02	1.886-06	1.770-18	9.788-09
121	139	3.737+02	6.256-03	1.310-13	2.142-02	124	146	1.056+02	2.643-02	1.895-14	6.995-05
121	143	1.131+02	4.040-06	3.322-18	1.506-08	124	147	1.056+02	2.681-03	3.201-15	1.181-05
121	144	1.127+02	1.860-02	2.528-14	1.132-04	124	148	1.056+02	1.326-03	2.215-15	8.156-06
121	145	1.123+02	1.046-01	8.482-14	3.766-04	124	149	1.048+02	2.163-03	2.544-15	9.164-06
121	150	1.020+02	5.200-03	5.797-15	1.928-05	124	154	1.020+02	1.186-00	1.849-12	6.137-03
121	151	1.020+02	1.499-01	2.338-13	7.775-04	124	155	1.020+02	7.294-00	1.462-11	4.851-02
121	152	1.020+02	6.891-00	1.382-11	4.591-02	124	156	1.019+02	5.881-00	1.440-11	4.776-02
121	153	1.019+02	7.987-01	1.243-12	4.121-03	124	157	1.019+02	1.902-01	3.809-13	1.263-03
122	124	3.967+04	9.740-14	1.787-20	4.494-03	125	133	4.960+02	2.810-04	5.759-15	2.830-03
122	125	3.729+04	5.476-10	1.142-16	2.385+01	125	134	4.936+02	2.137-03	6.071-14	2.940-02
122	126	3.410+04	3.539-11	6.168-18	9.845-01	125	135	4.614+02	1.879-03	3.331-14	1.318-02
122	127	3.194+04	1.421-08	2.656-15	3.485+02	125	147	1.056+02	5.254-03	4.882-15	2.316-05
122	130	1.299+03	8.896-06	1.251-15	1.104-02	125	148	1.056+02	2.220-01	2.885-13	1.367-03
122	136	3.763+02	5.955-05	7.024-16	1.507-04	125	149	1.048+02	5.809-02	5.315-14	2.463-04
122	137	3.760+02	1.237-05	2.039-16	4.366-05	125	154	1.020+02	7.059-03	8.560-15	3.654-05
122	138	3.754+02	9.699-03	2.049-13	4.365-02	125	155	1.020+02	8.711-04	1.358-15	5.798-06
122	139	3.739+02	1.341-03	2.185-14	4.597-03	125	156	1.020+02	4.108+01	7.825-11	3.339-01
122	144	1.127+02	8.800-02	9.304-14	5.357-04	125	157	1.019+02	3.178-00	4.952-12	2.113-02
122	150	1.020+02	3.615-01	3.135-13	1.341-03	126	133	4.966+02	4.582-04	9.413-15	4.643-03
122	151	1.020+02	2.873-01	3.487-13	1.491-03	126	134	4.943+02	1.311-04	3.734-15	1.815-03
122	152	1.020+02	3.114-02	4.858-14	2.076-04	126	135	4.620+02	1.253-04	2.227-15	8.838-04
122	153	1.019+02	4.363-01	5.285-13	2.253-03	126	147	1.057+02	1.471-03	1.367-15	6.491-06
123	124	4.551+04	4.462-10	1.940-16	4.090+01	126	148	1.056+02	7.416-04	9.641-16	4.570-06
123	125	4.241+04	2.922-10	1.418-16	2.420+01	126	149	1.048+02	3.958-03	3.623-15	1.681-05
123	126	3.832+04	2.019-10	8.004-17	1.008+01	126	154	1.020+02	1.849-01	2.243-13	9.582-04
123	128	1.473+03	2.510-07	1.633-17	1.167-04	126	155	1.020+02	1.093-02	1.705-14	7.285-05
123	129	1.447+03	1.777-05	3.345-15	2.266-02	126	156	1.020+02	3.554-01	6.772-13	2.892-03

Table 5. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic quadrupole (M2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
126	157	1.020+02	1.311-02	2.044-14	8.725-05	132	139	1.570+03	2.448-03	2.110-12	1.095+01
127	134	4.947+02	8.712-04	2.034-14	1.212-02	132	143	1.471+02	3.646-00	1.182-11	5.044-02
127	148	1.056+02	3.653-03	3.887-15	2.253-05	132	144	1.462+02	1.011-03	5.401-15	2.267-05
127	154	1.020+02	2.601-01	2.582-13	1.349-03	132	145	1.457+02	2.314-01	7.365-13	3.058-03
127	155	1.020+02	3.979-02	5.080-14	2.654-04	132	150	1.288+02	2.207+02	9.151-10	2.625-00
127	156	1.020+02	9.890-03	1.543-14	8.056-05	132	151	1.288+02	1.290+01	7.483-11	2.146-01
127	157	1.020+02	1.124-00	1.435-12	7.492-03	132	153	1.286+02	3.776+02	2.186-09	6.242-00
128	133	7.349+02	9.395-03	3.804-12	6.754-01	133	136	1.628+03	3.329-04	1.322-13	1.275-00
128	135	6.614+02	1.403-01	4.601-11	5.956-00	133	137	1.622+03	4.561-03	2.519-12	2.405+01
128	147	1.135+02	1.435+01	1.385-10	9.052-02	133	138	1.610+03	3.415-04	2.390-13	2.233-00
128	149	1.125+02	1.062+02	1.009-09	6.430-01	133	139	1.582+03	3.451-03	1.814-12	1.608+01
129	132	7.445+02	1.743-02	1.448-12	8.020-01	133	142	1.473+02	1.122+01	7.298-12	5.216-02
129	133	7.416+02	9.807-02	1.348-11	7.378-00	133	143	1.472+02	3.776+01	7.355-11	5.242-01
129	134	7.363+02	7.809-02	1.481-11	7.935-00	133	144	1.464+02	1.608+01	5.162-11	3.619-01
129	135	6.669+02	1.173-01	1.303-11	5.187-00	133	145	1.458+02	4.328+01	8.280-11	5.743-01
129	140	1.315+02	1.639+01	4.248-11	1.297-01	133	150	1.289+02	6.281+01	1.565-10	7.496-01
129	146	1.137+02	2.461+01	4.768-11	9.397-02	133	151	1.289+02	8.436+02	2.941-09	1.409+01
129	147	1.136+02	1.489+02	4.805-10	9.462-01	133	152	1.289+02	5.765+01	2.583-10	1.236-00
129	148	1.136+02	1.121+02	5.058-10	9.945-01	133	153	1.287+02	5.328+02	1.853-09	8.837-00
129	149	1.127+02	9.090+01	2.884-10	5.539-01	134	136	1.654+03	3.783-10	1.108-19	1.570-06
129	154	1.094+02	5.896-07	2.470-18	4.342-09	134	137	1.648+03	4.990-04	2.032-13	2.849-00
130	132	7.887+02	6.385-07	3.573-17	3.920-05	134	138	1.636+03	1.346-02	6.944-12	9.523+01
130	133	7.855+02	5.656-02	5.231-12	5.670-00	134	139	1.607+03	1.711-03	6.625-13	8.614-00
130	134	7.795+02	4.803-01	6.125-11	6.489+01	134	143	1.474+02	3.953+01	5.516-11	5.528-01
130	135	7.021+02	1.908-01	1.410-11	1.091+01	134	144	1.466+02	1.894+02	4.357-10	4.295-00
130	140	1.328+02	2.624+02	4.164-10	2.182-00	134	145	1.460+02	7.539+01	1.033-10	1.007-00
130	141	1.313+02	4.724+02	2.441-10	1.235-00	134	150	1.291+02	2.758-03	4.919-15	3.312-05
130	146	1.147+02	6.090-03	7.201-15	2.427-05	134	151	1.291+02	1.040+02	2.597-10	1.748-00
130	147	1.146+02	1.098+02	2.163-10	7.283-01	134	152	1.290+02	2.521+03	8.088-09	5.439+01
130	148	1.146+02	9.238+02	2.544-09	8.553-00	134	153	1.289+02	2.928+02	7.290-10	4.887-00
130	149	1.137+02	1.979+02	3.833-10	1.259-00	135	136	2.159+03	4.233-05	2.958-14	6.656-01
130	154	1.103+02	4.326-06	1.105-17	3.321-08	135	137	2.149+03	1.094-04	1.061-13	2.356-00
130	155	1.103+02	1.855-05	6.093-17	1.830-07	135	138	2.129+03	7.619-04	9.317-13	2.010+01
130	157	1.103+02	4.120-08	1.353-19	4.061-10	135	139	2.080+03	1.923-03	1.747-12	3.518+01
131	132	8.206+02	6.626-04	6.690-14	4.962-02	135	142	1.506+02	8.853+01	6.024-11	4.607-01
131	133	8.172+02	7.744-02	1.292-11	9.462-00	135	143	1.505+02	2.494+01	5.081-11	3.875-01
131	134	8.107+02	1.041-01	2.392-11	1.711+01	135	144	1.497+02	3.154+01	1.059-10	7.939-01
131	135	7.273+02	3.123-01	4.128-11	2.131+01	135	145	1.491+02	1.045+02	2.090-10	1.550-00
131	140	1.337+02	2.369+02	6.348-10	2.036-00	135	150	1.315+02	3.200+01	8.292-11	4.214-01
131	146	1.153+02	1.629-00	3.248-12	6.681-03	135	151	1.314+02	9.200+01	3.337-10	1.695-00
131	147	1.153+02	1.824+02	6.054-10	1.244-00	135	152	1.314+02	5.367+02	2.501-09	1.270+01
131	148	1.152+02	2.310+02	1.072-09	2.200-00	135	153	1.313+02	1.188+03	4.299-09	2.175+01
131	149	1.143+02	4.019+02	1.312-09	2.628-00	136	140	1.773+02	3.813-07	1.078-18	1.343-08
131	154	1.109+02	1.809-05	7.788-17	1.427-07	136	141	1.745+02	4.164-07	3.802-19	4.521-09
132	136	1.614+03	1.236-03	8.048-13	4.542-00	136	146	1.463+02	7.489-00	1.442-11	1.010-01
132	137	1.609+03	6.722-05	6.085-14	3.399-01	136	147	1.463+02	1.258-00	4.033-12	2.822-02

Table 5. Transition energies (Å), radiative rates (s^{-1}), oscillator strengths, and line strengths (a.u.) for magnetic quadrupole (M2) transitions in Fe XVII. ($a\pm b \equiv 10^{a\pm b}$).

i	j	ΔE_{ij}	A_{ji}	f_{ij}	S	i	j	ΔE_{ij}	A_{ji}	f_{ij}	S
136	148	1.461+02	1.989-06	8.916-18	6.226-08	143	154	1.005+03	8.563-12	3.025-21	4.119-09
136	149	1.447+02	5.996-01	1.882-12	1.275-02	144	146	1.624+03	7.614-09	1.806-18	1.729-05
136	154	1.394+02	1.019+03	4.154-09	2.514+01	144	147	1.617+03	4.191-03	1.642-12	1.552+01
136	155	1.394+02	6.920+01	3.626-10	2.195-00	144	148	1.604+03	3.629-02	1.959-11	1.807+02
136	157	1.393+02	5.958+02	3.120-09	1.887+01	144	149	1.444+03	1.410-02	4.409-12	2.970+01
137	140	1.773+02	7.326-10	1.480-21	2.584-11	144	154	1.044+03	5.200-13	1.191-22	3.035-10
137	146	1.464+02	5.846-01	8.046-13	7.899-03	144	155	1.045+03	2.473-11	7.283-21	1.857-08
137	147	1.463+02	2.378+01	5.450-11	5.344-01	144	157	1.042+03	3.967-11	1.163-20	2.945-08
137	148	1.462+02	1.995-00	6.392-12	6.255-02	145	146	1.691+03	4.837-05	2.073-14	1.345-01
137	149	1.447+02	2.141-00	4.803-12	4.560-02	145	147	1.683+03	5.682-03	4.022-12	2.573+01
137	154	1.394+02	1.294+02	3.770-10	3.197-00	145	148	1.669+03	7.684-03	7.487-12	4.670+01
137	155	1.394+02	9.420+02	3.528-09	2.992+01	145	149	1.497+03	2.310-02	1.293-11	5.820+01
137	156	1.394+02	1.769+02	8.096-10	6.861-00	145	154	1.072+03	1.405-10	5.645-20	9.327-08
137	157	1.394+02	1.637+03	6.127-09	5.192+01	146	150	3.238+03	1.338-04	3.506-13	1.597+01
138	147	1.464+02	2.291-00	4.090-12	5.167-02	146	151	3.230+03	8.911-06	3.251-14	1.470-00
138	148	1.463+02	6.693+01	1.670-10	2.105-00	146	153	3.125+03	2.730-04	9.323-13	3.817+01
138	149	1.448+02	1.822+01	3.184-11	3.894-01	147	150	3.266+03	3.610-05	5.772-14	4.498-00
138	154	1.395+02	2.095-03	4.752-15	5.192-05	147	151	3.258+03	5.048-04	1.124-12	8.695+01
138	155	1.395+02	1.354-00	3.948-12	4.313-02	147	152	3.237+03	3.757-05	1.063-13	8.063-00
138	156	1.394+02	5.417+03	1.930-08	2.107+02	147	153	3.151+03	3.663-04	7.633-13	5.341+01
138	157	1.394+02	4.805+02	1.401-09	1.529+01	148	150	3.321+03	1.391-12	1.643-21	1.884-07
139	140	1.778+02	4.318-07	8.771-19	1.544-08	148	151	3.312+03	5.692-05	9.362-14	1.065+01
139	146	1.467+02	1.825+01	2.523-11	2.494-01	148	152	3.291+03	1.439-03	3.004-12	3.352+02
139	147	1.466+02	1.580+01	3.637-11	3.590-01	148	153	3.202+03	1.874-04	2.881-13	2.961+01
139	148	1.465+02	6.091-00	1.960-11	1.931-01	149	150	4.306+03	4.666-06	1.297-14	2.316-00
139	149	1.451+02	3.339+01	7.523-11	7.191-01	149	151	4.292+03	1.416-05	5.475-14	9.679-00
139	154	1.397+02	4.228+01	1.237-10	1.056-00	149	152	4.256+03	8.363-05	4.088-13	7.049+01
139	155	1.397+02	1.712+02	6.439-10	5.496-00	149	153	4.108+03	2.240-04	7.933-13	1.230+02
139	156	1.397+02	7.049+02	3.239-09	2.763+01	150	154	3.060+04	3.258-09	6.404-16	4.105+01
139	157	1.396+02	3.615+03	1.359-08	1.159+02	150	155	3.076+04	2.019-10	5.155-17	3.357-00
140	143	1.853+03	7.660-04	3.945-13	3.371-00	150	157	2.878+04	2.606-09	5.822-16	3.102+01
140	144	1.732+03	1.116-02	8.370-12	5.838+01	151	154	3.135+04	3.540-10	5.215-17	5.030-00
140	145	1.662+03	2.166-02	8.971-12	5.527+01	151	155	3.152+04	2.615-09	5.007-16	4.908+01
140	150	6.658+02	2.753-09	3.049-19	1.208-07	151	156	2.978+04	6.234-10	1.303-16	1.077+01
140	151	6.654+02	4.192-10	6.493-20	2.568-08	151	157	2.943+04	6.726-09	1.123-15	8.966+01
140	153	6.609+02	5.842-09	8.926-19	3.457-07	152	154	3.339+04	6.558-18	8.524-25	1.277-07
141	144	2.046+03	3.243-03	1.017-11	3.898+01	152	155	3.358+04	2.926-12	4.947-19	7.540-02
141	150	7.075+02	2.136-09	8.013-19	1.269-07	152	156	3.162+04	1.495-08	2.739-15	3.485+02
142	147	1.509+03	7.086-04	1.210-12	1.862-00	152	157	3.122+04	1.385-09	2.025-16	2.482+01
142	149	1.358+03	1.044-02	1.442-11	1.615+01	153	154	4.652+04	1.766-11	5.730-18	1.806-00
143	146	1.530+03	1.301-03	4.567-13	2.195-00	153	155	4.689+04	7.194-11	3.049-17	9.840-00
143	147	1.524+03	7.443-03	4.318-12	2.050+01	153	156	4.315+04	4.084-10	1.791-16	4.506+01
143	148	1.512+03	5.931-03	4.744-12	2.201+01	153	157	4.242+04	2.222-09	7.708-16	1.842+02
143	149	1.369+03	8.744-03	4.097-12	1.412+01						