Table 1. Basic properties of the program stars

Star		*Position (2000.0)*		m_v	M_v	*OB Assoc.*	*Available data*	
HD/BD	Other name	α	δ				Visible	IUE
BD +60 51	SAO 11196	00 26 33.7	+61 24 46	9.23	-4.80	Cas OB4	Y	N
HD 2928	SAO 11258	00 33 13.3	+62 32 14	8.61	-5.50	Cas OB4	Y	Y
HD 3940	SAO 11343	00 42 50.0	+64 17 28	7.26	-6.37	Cas OB7	Y	Y
BD +61 153	SAO 11344	00 42 59.1	+62 14 06	9.32	-4.69	Cas OB7	Y	N
HD 4717	SAO 11421	00 50 16.1	+63 10 17	8.9	-5.90	Cas OB7	Y	N
HD 5776	SAO 11519	01 00 32.8	+63 01 44	8.05	-4.97	Cas OB7	Y	Y
HD 12953	V472 Per	02 08 40.4	+58 25 25	5.67	-7.81	Per OB1	Y	Y
HD 13476	HR 641	02 13 41.5	+58 33 39	6.44	-7.10	Per OB1	Y	Y
HD 13744	SAO 23101	02 15 58.5	+58 17 37	7.59	-6.46	Per OB1	Y	Y
HD 14433	SAO 23243	02 21 55.3	+57 14 34	6.39	-6.89	Per OB1	Y	Y
HD 14489	i Per	02 22 21.3	+55 50 44	5.20	-7.84	Per OB1	Y	Y
HD 14535	SAO 23263	02 22 53.4	+57 14 42	7.44	-6.50	Per OB1	Y	Y
HD 15316	SAO 23374	02 29 58.6	+57 49 15	7.23	-6.48	Per OB1	Y	Y
HD 16778	SAO 23564	02 43 53.5	+59 49 22	7.71	-6.89	Per OB1	Y	Y
HD 236995	SAO 23582	02 45 03.4	+58 33 05	8.63	-4.77	Per OB1	Y	N
HD 17378	V480 Per	02 49 30.6	+57 05 03	6.25	-7.81	Per OB1	Y	Y
HD 20041	HR 964	03 15 47.9	+57 08 26	5.79	-6.60	Cam OB1	Y	Y
HD 21389	HR 1040	03 29 54.7	+58 52 43	4.54	-7.10	Cam OB1	Y	Y
HD 46300	13 Mon	06 32 54.2	+07 19 59	4.50	-4.80	Mon OB1	Y	Y
HD 59612	HR 2874	07 29 51.4	−23 01 28	4.85	-5.10	-	Y	Y
HD 87737	η Leo	10 07 19.9	+16 45 45	3.52	-5.30	Sco-Cen	N	Y
HD 92207	V370 Car	10 37 27.0	−58 43 60	5.46	−8.00	Car OB1	N	Y
HD 100198	V809 Cen	11 31 15.0	−61 16 42	6.31	-7.20	Car-Cen	N	Y
HD 100826	SAO 251469	11 35 42.3	−61 17 16	6.29	-5.40	NGC 3766	N	Y
HD 102878	HR 4541	11 50 27.2	−62 38 57	5.70	-7.00	Cru OB1	Y	Y
HD 103516	HR 4563	11 54 59.9	−63 16 44	5.90	-4.90	Car-Cen	N	Y
HD 104035	HR 4578	11 58 47.7	−64 20 21	5.61	-5.20	Car-Cen	N	Y
HD 104111	SAO 251670	11 59 25.6	−62 49 51	6.37	-	-	N	Y
HD 161912	iot02 Sco	17 50 11.0	−40 05 25	4.81	-4.70	-	N	Y
HD 187983	HR 7573	19 52 01.4	+24 59 32	5.57	-6.50	Vul OB4	Y	N
HD 197345	α Cyg	20 41 25.8	+45 16 49	1.25	-8.55	Cyg OB7	Y	Y
HD 207260	ν Cep	21 45 26.9	+61 07 15	4.30	-6.82	Cep OB2	Y	Y
HD 207673	HR 8345	21 49 40.0	+41 08 56	6.48	-4.97	-	Y	Y
HD 209900	SAO 34034	22 05 13.7	+53 30 37	8.71	-4.85	Cep OB1	Y	N
HD 210221	HR 8443	22 07 25.5	+53 18 27	6.14	-5.00	Cep OB1	Y	Y
HD 211971	SAO 34314	22 19 25.6	+60 08 52	6.90	-5.50	Cep OB2	Y	Y
HD 212593	4 Lac	22 24 30.9	+49 28 35	4.56	-5.86	Lac OB1	Y	Y
HD 213470	SAO 34531	22 30 18.6	+57 13 32	6.65	-7.09	Cep OB1	Y	Y
BD +60 2542	SAO 20639	23 27 05.6	+61 22 42	8.82	-5.09	Cas OB2	Y	N
HD 223385	6 Cas	23 48 50.1	+62 12 52	5.43	-8.22	Cas OB5	Y	Y
HD 223960	SAO 20923	23 53 49.9	+60 51 13	6.93	-6.90	Cas OB5	Y	Y

Note: Y ≡ Observed
N ≡ Not observed

Table 2. Spectral types

Star	Spectral Type from different sources						
	(Hu)	(GS)	(Bw)	(Fn)	(KG)	(Cz)	(St)
BD+60 51	A2 Ib						
HD 2928	A0 Iab						
HD 3940	A1 Ia	A1 Ia					
BD+61 153	A0 Ib	A0 Ib					
HD 4717	A0 Ib						
HD 5776	A0 Ib	A0 Ib					
HD 12953	A1 Ia	A1 Ia		A1 Ia			
HD 13476	A3 Iab	A3 Iab	A3 Iab				
HD 13744	A0 Iab	A0 Iab	B9 Iab				
HD 14433	A1 Ia	A1 Ia					
HD 14489	A2 Ia	A2 Iabs	A3 Ia				
HD 14535	A2 Iap	A2 Iabs					
HD 15316	A3 Iab	A2 Ia	A2 Iab				
HD 16778	A2 Ia	A2 Ia	A1 Ia				
HD 236995	A0 Ib	A0 Ib					
HD 17378	A5 Ia	A5 Ia	A3 Ia-Iab				
HD 20041	A0 Ia		B9.5 Ia				
HD 21389	A0 Ia		A0 Ia				
HD 46300	A0 Ib	A0 Ib	A1 Ib	A0 Ib			
HD 59612	A5 Ib		A5 Ib-II	A5 Ib			
HD 87737	A0 Ib		A0 Iab	A0 Ib			
HD 92207	A0 Ia			A0 Ia			
HD 100198				A3 Ia			
HD 100826				A0 Ia			A0 Ib
HD 102878	A2 Ia-Iab				A2 Ia		
HD 103516	A3 Ib			B9 II			
HD 104035	A3 Ib			A3 Ib			
HD 104111				A9 Ib/II			
HD 161912	A2 Ib						
HD 187983	A1 Iab			A1 Iab			
HD 197345	A2 Ia	A2 Ia	A0 Ia				
HD 207260	A2 Iab	A2 Ia	A5 Ia				
HD 207673			A1 Iab			A2 Ib	
HD 209900	A0 Ib	A0 Ib					
HD 210221			A3 Ib				
HD 211971	A2 Ib		A1 Ia				
HD 212593	B9 Iab		B9 Ia				
HD 213470	A3 Ia	A3 Ia	A3 Ia				
BD+60 2542	A2 Ib	A2 Ib					
HD 223385	A3 Ia	A3 Ia					
HD 223960	A0 Ia +	A0 Ia+					

References:
(Hu) Humphreys **?**
(GS) Garmany & Stencel **?**
(Bw) Bouw **?**
(St) Stothers **?**
(Fn) Fernie **?**
(KG) Kaltcheva & Georgiev **?**
(Cz) Cananzi et al. **?**

Table 3. Observed spectral ranges

Campaign	Central λ (Å)	$\Delta\lambda$ (Å)	Dispersion (Å/pixel)
La Palma (INT)	3951	96	0.166
	4481	97	0.168
	5889	62	0.107
	6563	100	0.173
La Palma (JKT)	4300	400	0.39
	4800	350	0.34
	6200	650	0.63
	6678	820	0.80
Calar Alto (2.2 m)	3950	131	0.128
	4481	133	0.130
	4861	132	0.129
	5889	124	0.121
	6562	100	0.097

Table 4. Journal of observations in the visible

STAR	Sp. Range	Tel.	JD - 2440000.	STAR	Sp. Range	Tel.	JD - 2440000.
BD +60 51	$H\alpha$	INT	7432.45, 7434.45	HD 14433	$H\alpha$	INT	7431.63, 7433.67
	NaI+HeI	INT	7433.57			CA	7458.56
	MgII+HeI	INT	7431.54			JKT	9614.65, 9615.61
HD 2928	$H\alpha$	INT	7432.48, 7434.47		CaII	INT	7432.67
		JKT	9615.55			CA	7454.55
	NaI+HeI	INT	7433.59		NaI+HeI	INT	7434.66
	$H\beta$	CA	7458.48		$H\beta$	CA	7456.55
	MgII+HeI	CA	7457.46			JKT	9616.62
HD 3940	$H\alpha$	INT	7432.50, 7434.50		MgII+HeI	INT	7434.71
		CA	7458.45	HD 14489	$H\alpha$	INT	7431.64, 7433.68
		JKT	9614.61, 9615.54			CA	7458.57
	NaI+HeI	INT	7433.61			JKT	9614.66, 9615.61
	$H\beta$	CA	7458.47		CaII	INT	7432.70
		JKT	9616.55		NaI+HeI	INT	7434.67
	MgII+HeI	CA	7457.50			JKT	9621.71
	$H\gamma$ + $H\delta$	JKT	9621.55		$H\beta$	CA	7456.56
BD +61 153	$H\alpha$	INT	7432.51, 7434.50			JKT	9616.63
	NaI+HeI	INT	7433.62		MgII+HeI	INT	7434.73
	MgII+HeI	INT	7431.56		$H\gamma$ + $H\delta$	JKT	9621.59
HD 4717	$H\alpha$	INT	7432.53, 7434.53	HD 14535	$H\alpha$	INT	7432.58, 7434.56
	NaI+HeI	INT	7434.62			CA	7458.58
	MgII+HeI	CA	7457.51			JKT	9614.66, 9615.62
HD 5776	$H\alpha$	INT	7432.56, 7434.55		NaI+HeI	INT	7434.67
	NaI+HeI	INT	7434.63			JKT	9621.72
	$H\beta$	CA	7458.51		$H\beta$	CA	7456.56
	MgII+HeI	CA	7457.54			JKT	9616.64
HD 12953	$H\alpha$	INT	7431.62, 7433.65		MgII+HeI	CA	7457.58
		CA	7455.52		$H\gamma$ + $H\delta$	JKT	9621.60
		JKT	9614.62, 9615.59	HD 15316	$H\alpha$	INT	7432.59, 7434.57
	CaII	INT	7432.66			CA	7458.59
		CA	7452.55, 7454.52			JKT	9614.67, 9615.64
	NaI+HeI	INT	7434.64		NaI+HeI	INT	7434.69
		CA	7460.71		$H\beta$	CA	7456.58
	MgII+HeI	INT	7434.70			JKT	9616.66
	$H\beta$	CA	7456.52		MgII+HeI	CA	7457.60
		JKT	9616.58	HD 16778	$H\alpha$	INT	7432.60, 7434.58
HD 13476	$H\alpha$	INT	7431.64, 7433.66			JKT	9614.68, 9615.65
		CA	7458.54		NaI+HeI	INT	7434.61
		JKT	9614.63, 9615.60			JKT	9621.73
	NaI+HeI	INT	7434.65		$H\beta$	CA	7456.60
		JKT	9621.71			JKT	9616.67
	$H\beta$	CA	7456.52		MgII+HeI	CA	7457.61
		JKT	9616.59	HD 17378	$H\alpha$	INT	7431.66, 7433.68
	MgII+HeI	CA	7457.56			CA	7455.66
	$H\gamma$	JKT	9621.58			JKT	9614.69, 9615.68
HD 13744	$H\alpha$	INT	7431.65, 7433.66		NaI+HeI	INT	7433.62
		CA	7458.55		CaII	INT	7432.70
		JKT	9614.64, 9615.60			CA	7452.59, 7454.60
	NaI+HeI	INT	7434.66		$H\beta$	CA	7456.64
	$H\beta$	CA	7456.53			JKT	9616.70
		JKT	9616.60		MgII+HeI	INT	7434.74
	MgII+HeI	CA	7457.57		$H\gamma$ + $H\delta$	JKT	9621.62

Note: INT = Isaac Newton Telescope + IDS;
CA = 2.2 m Telescope, Calar Alto + Coudé;
JKT = Jacobus Kapteyn Telescope + RBS;

Table 4. Continuation

STAR	Sp. Range	Tel.	JD - 2440000.	STAR	Sp. Range	Tel.	JD - 2440000.
HD 20041	Hα	INT	7432.63, 7434.59	HD 210221	Hα	INT	7432.37, 7434.38
		CA	7455.65			CA	7458.34
		JKT	9614.69, 9615.68			JKT	9614.45
	NaI+HeI	INT	7433.76, 7434.60		NaI+HeI	INT	7433.52
		JKT	9621.73		CaII	CA	7452.39
	CaII	CA	7457.68		Hβ	CA	7456.36
	Hβ	CA	7456.65			JKT	9616.47
		JKT	9616.70	HD 211971	Hα	INT	7432.38, 7434.38
	MgII+HeI	CA	7457.66		NaI+HeI	INT	7433.53
	Hγ + Hδ	JKT	9621.64			JKT	9621.40
HD 21389	Hα	INT	7431.67, 7433.70		CaII	CA	7455.39
		CA	7455.64		Hβ	CA	7456.37
		JKT	9614.70, 9615.69			JKT	9616.48
	NaI+HeI	INT	7433.73		MgII+HeI	INT	7433.37
		JKT	9621.74		Hγ + Hδ	JKT	9618.51
	CaII	INT	7432.72	HD 212593	Hα	INT	7432.38
		CA	7452.64			CA	7458.35
	Hβ	CA	7456.66			JKT	9614.48
		JKT	9616.72		NaI+HeI	INT	7433.53
	MgII+HeI	INT	7432.77		CaII	CA	7454.38
HD 46300	Hα	INT	7431.68, 7433.71		Hβ	CA	7456.38
		CA	7455.69			JKT	9616.49
	NaI+HeI	INT	7433.72		MgII+HeI	INT	7433.38
	CaII	INT	7432.73	HD 213470	Hα	INT	7432.39, 7434.40
		CA	7452.72			CA	7458.36
	Hβ	CA	7456.66			JKT	9614.50, 9615.48
	MgII+HeI	INT	7432.76		NaI+HeI	INT	7433.54
	Hγ + Hδ	JKT	9617.74			JKT	9621.40
HD 187982	Hα	JKT	9614.44, 9614.51		CaII	CA	7457.32
	NaI+HeI	JKT	9621.36		Hβ	CA	7456.39
	Hβ	JKT	9616.41			JKT	9616.50
HD 197345	Hα	INT	7432.33, 7434.35		MgII+HeI	INT	7433.39
		JKT	9614.36		Hγ + Hδ	JKT	9621.45
	NaI+HeI	INT	7433.50	BD +60 2542	Hα	INT	7432.40, 7434.41
		JKT	9621.37			JKT	9614.57
	CaII	INT	7433.46		NaI+HeI	INT	7433.54
		CA	7452.35, 7455.36		CaII	CA	7457.34
	Hβ	CA	7456.30		Hβ	CA	7456.40
		JKT	9616.39		MgII+HeI	CA	7457.37
	MgII+HeI	INT	7433.34	HD 223385	Hα	INT	7432.44
HD 207260	Hα	INT	7432.33, 7434.35			CA	7458.38
		CA	7458.33		NaI+HeI	INT	7433.56
		JKT	9614.36, 9615.42			CA	7456.48
	NaI+HeI	INT	7433.50			JKT	9621.42
		JKT	9621.38		CaII	INT	7433.45
	CaII	INT	7433.44			CA	7454.40
		CA	7452.36		Hβ	CA	7456.42
	Hβ	CA	7456.34		MgII+HeI	CA	7457.39
		JKT	9616.42		Hγ + Hδ	JKT	9621.51
	MgII+HeI	INT	7433.35				
	Hγ + Hδ	JKT	9618.47				
HD 207673	Hα	JKT	9614.43, 9614.52				
	NaI+HeI	JKT	9621.39				
	Hβ	JKT	9616.43				
	Hγ + Hδ	JKT	9618.47				

Table 4. Continuation

STAR	Sp. Range	Tel.	JD - 2440000.	STAR	Sp. Range	Tel.	JD - 2440000.
HD 209900	Hα	INT	7432.34, 7434.35	HD 223960	Hα	INT	7432.44, 7434.44
		JKT	9614.41			CA	7458.44
	NaI+HeI	INT	7433.51			JKT	9614.65, 9615.53
	CaII	CA	7457.29		NaI+HeI	INT	7433.57
	Hβ	CA	7458.29			JKT	9621.42
		JKT	9616.44		CaII	INT	7433.46
	MgII+HeI	INT	7433.40			CA	7454.43
					Hβ	CA	7448.31
						JKT	9616.54
					MgII+HeI	INT	7431.52
					Hγ + Hδ	JKT	9621.47

Table 5. IUE Observations

Star	JD-2400000.	LWP	Exp.T (m)
HD 2928	50031.973	31681	300
HD 3940	50009.176	31605	105
HD 5776	50013.217	31615	200
HD 12953	46698.362	9167	037
	46705.213	9224	037
	46714.169	9290	037
	46722.172	9350	037
	46729.196	9407	037
HD 13476	49664.225	29471	083
HD 13744	50005.497	31590	150
HD 14433	46698.273	9166	072
	46705.272	9225	042
	46714.224	9291	035
HD 14535	49664.114	29470	120
HD 15316	49664.031	29469	075
HD 16778	50007.065	31602	170
HD 17378	46698.421	9168	040
HD 20041	49663.985	29468	020
HD 21389	46698.231	9165	008
	46705.331	9226	008
	46714.278	9292	008
	46722.133	9349	010
	46729.148	9406	010
HD 46300	46698.143	9163	005
	46714.114	9289	004
	46722.076	9348	004
	46729.086	9405	004
HD 59612	46698.185	9164	030
	48596.899	21952	020
HD 87737	48577.184	21753	005
	48583.044	21808	001
	48588.976	21871	001
	48589.272	21876	001
	48596.995	21954	001
	48612.076	22044	001
HD 100198	49480.707	28096	040
HD 100826	49480.667	28095	023
HD 102878	49480.762	28097	023
HD 103516	49480.549	28093	030
HD 104035	49480.513	28092	015
HD 104111	49480.596	28094	060
HD 161912	49481.474	28091	005
HD 207673	50032.235	31682	050
HD 210221	48612.188	22046	017
HD 211971	48583.083	21809	045
HD 212593	48589.235	21875	005
	48597.035	21955	004
HD 213470	49700.159	29702	057

Table 6. Interstellar components used for wavelength calibration

Ion	Mult.	λ (Å)
Fe II	3	2343.495
Fe II	2	2366.864
		2373.733
		2382.034
Fe II	1	2585.876
		2599.395
Mn II	1	2576.107
		2593.731
		2605.697
Mg II	1	2795.523
	1	2802.698
Mg I	1	2852.120

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Table 7. Visible lines selected for this atlas

Ion	λ (Å)	log gf	$E_i(cm^{-1})$	j_i	$Config_i$	$E_f(cm^{-1})$	j_f	$Config_f$
Hα	6562.80	0.7098	82259	(1/2, 3/2)	2p $^2P^0$	97492	(3/2,5/2)	3d ^2D
Hβ	4861.32	-0.0202	82259	(1/2, 3/2)	2p $^2P^0$	102824	(3/2, 5/2)	4d ^2D
Hγ	4340.46	-0.4469	82259	(1/2, 3/2)	2p $^2P^0$	105292	(3/2, 5/2)	5d ^2D
Hδ	4101.73	-0.7527	82259	(1/2, 3/2)	2p $^2P^0$	106632	(3/2, 5/2)	6d ^2D
Hϵ	3970.07	-0.9929	82259	(1/2, 3/2)	2p $^2P^0$	107440	(3/2, 5/2)	7d ^2D
He I	5875.7	0.739	169087	(2,1,0)	2p $^3P^0$	186102	(3,2,1)	3d ^3D
	4471.5	0.052	169087	(2,1,0)	2p $^3P^0$	191445	(3,2,1)	4d ^3D
Na I	5895.92	-0.184	0	1/2	3s ^2S	16956	1/2	3p $^2P^0$
	5889.95	0.117	0	1/2	3s ^2S	16968	3/2	3p $^2P^0$
Ca II	3968.47	-0.162	0	1/2	4s ^2S	25192	1/2	4p $^2P^0$
	3933.66	0.140	0	1/2	4s ^2S	25414	3/2	4p $^2P^0$
Mg II	4481.2	0.978	71491	(5/2, 3/2)	3d ^2D	93800	(5/2, 7/2)	4f $^2F^0$

Table 8. Ultraviolet lines selected for this atlas

Ion	λ (Å)	log gf	$E_i(cm^{-1})$	j_i	$Config_i$	$E_f(cm^{-1})$	j_f	$Config_f$
Mg II (1)	2802.70	-0.203	0.000	1/2	3s ^{2}S	35669.310	1/2	3p ^{2}P^0
	2795.53	0.098	0.000	1/2	3s ^{2}S	35760.880	3/2	3p ^{2}P^0
Fe II (63)	2772.719	-1.533	8391.938	5/2	a ^{4}D	44446.878	7/2	z ^{4}D^0
	2768.940	-0.971	8680.454	3/2	a ^{4}D	44784.761	5/2	z ^{4}D^0
	2761.813	-0.898	8846.768	1/2	a ^{4}D	45044.168	3/2	z ^{4}D^0
	2749.482	-0.581	8846.768	1/2	a ^{4}D	45206.450	1/2	z ^{4}D^0
	2749.182	-0.281	8680.454	3/2	a ^{4}D	45044.168	3/2	z ^{4}D^0
	2746.978	0.055	8391.938	5/2	a ^{4}D	44784.761	5/2	z ^{4}D^0
	2739.545	0.331	7955.299	7/2	a ^{4}D	44446.878	7/2	z ^{4}D^0
	2736.968	-0.545	8680.454	3/2	a ^{4}D	45206.450	1/2	z ^{4}D^0
	2727.538	-0.349	8391.938	5/2	a ^{4}D	45044.168	3/2	z ^{4}D^0
	2714.414	-0.398	7955.299	7/2	a ^{4}D	44784.761	5/2	z ^{4}D^0
Fe II (62)	2755.733	0.425	7955.299	7/2	a ^{4}D	44232.512	9/2	z ^{4}F^0
	2749.324	0.323	8391.938	5/2	a ^{4}D	44753.799	7/2	z ^{4}F^0
	2746.487	0.163	8680.454	3/2	a ^{4}D	45079.879	5/2	z ^{4}F^0
	2743.196	-0.050	8846.768	1/2	a ^{4}D	45289.801	3/2	z ^{4}F^0
	2730.735	-0.712	8680.454	3/2	a ^{4}D	45289.801	3/2	z ^{4}F^0
	2724.879	-0.800	8391.938	5/2	a ^{4}D	45079.879	5/2	z ^{4}F^0
	2716.683	-1.484	7955.299	7/2	a ^{4}D	44753.799	7/2	z ^{4}F^0
	2709.373	-2.858	8391.938	5/2	a ^{4}D	45289.801	3/2	z ^{4}F^0
	2692.826	-3.239	7955.299	7/2	a ^{4}D	45079.879	5/2	z ^{4}F^0
Fe II (1)	2631.321	-0.274	667.683	5/2	a ^{6}D	38660.043	7/2	z ^{6}D^0
	2631.045	-0.271	862.613	3/2	a ^{6}D	38858.958	5/2	z ^{6}D^0
	2628.291	-0.425	977.053	1/2	a ^{6}D	39013.206	3/2	z ^{6}D^0
	2625.664	-0.435	384.790	7/2	a ^{6}D	38458.981	9/2	z ^{6}D^0
	2621.669	-0.930	977.053	1/2	a ^{6}D	39109.307	1/2	z ^{6}D^0
	2620.408	-1.801	862.613	3/2	a ^{6}D	39013.206	3/2	z ^{6}D^0
	2617.618	-0.508	667.683	5/2	a ^{6}D	38858.958	5/2	z ^{6}D^0
	2613.820	-0.322	862.613	3/2	a ^{6}D	39109.307	1/2	z ^{6}D^0
	2611.873	0.032	384.790	7/2	a ^{6}D	38660.043	7/2	z ^{6}D^0
	2607.086	-0.099	667.683	5/2	a ^{6}D	39013.206	3/2	z ^{6}D^0
	2599.395	0.417	0.000	9/2	a ^{6}D	38458.981	9/2	z ^{6}D^0
	2598.369	-0.029	384.790	7/2	a ^{6}D	38858.958	5/2	z ^{6}D^0
	2585.876	-0.116	0.000	9/2	a ^{6}D	38660.043	7/2	z ^{6}D^0
Fe II (161)	2498.897	0.365	21581.638	9/2	a ^{4}H	61587.214	11/2	z ^{4}I^0
Fe II (2)	2413.308	-0.397	977.053	1/2	a ^{6}D	42401.302	3/2	z ^{6}F^0
	2411.062	-0.327	977.053	1/2	a ^{6}D	42439.822	1/2	z ^{6}F^0
	2410.521	-0.033	862.613	3/2	a ^{6}D	42334.822	5/2	z ^{6}F^0
	2406.660	-0.175	862.613	3/2	a ^{6}D	42401.302	3/2	z ^{6}F^0
	2404.882	0.201	667.683	5/2	a ^{6}D	42237.033	7/2	z ^{6}F^0
	2404.430	-0.936	862.613	3/2	a ^{6}D	42439.822	1/2	z ^{6}F^0
	2399.242	-0.107	667.683	5/2	a ^{6}D	42334.822	5/2	z ^{6}F^0
	2395.627	0.413	384.790	7/2	a ^{6}D	42114.818	9/2	z ^{6}F^0
	2395.416	-0.992	667.683	5/2	a ^{6}D	42401.302	3/2	z ^{6}F^0
	2388.629	-0.131	384.790	7/2	a ^{6}D	42237.033	7/2	z ^{6}F^0
	2383.060	-1.337	384.790	7/2	a ^{6}D	42334.822	5/2	z ^{6}F^0
	2382.034	0.557	0.000	9/2	a ^{6}D	41968.046	11/2	z ^{6}F^0
	2373.733	-0.469	0.000	9/2	a ^{6}D	42114.818	9/2	z ^{6}F^0
	2366.864	-3.357	0.000	9/2	a ^{6}D	42237.033	7/2	z ^{6}F^0
Fe II (3)	2380.757	-0.628	667.683	5/2	a ^{6}D	42658.224	7/2	z ^{6}P^0
	2364.825	-0.344	384.790	7/2	a ^{6}D	42658.224	7/2	z ^{6}P^0
	2359.111	-0.542	862.613	3/2	a ^{6}D	43238.586	5/2	z ^{6}P^0
	2348.300	-0.248	667.683	5/2	a ^{6}D	43238.586	5/2	z ^{6}P^0
	2344.278	-0.450	977.053	1/2	a ^{6}D	43620.957	3/2	z ^{6}P^0
	2343.495	0.112	0.000	9/2	a ^{6}D	42658.224	7/2	z ^{6}P^0
	2338.008	-0.385	862.613	3/2	a ^{6}D	43620.957	3/2	z ^{6}P^0
	2332.798	-0.191	384.790	7/2	a ^{6}D	43238.586	5/2	z ^{6}P^0
	2327.391	-0.631	667.683	5/2	a ^{6}D	43620.957	3/2	z ^{6}P^0