Table 1: Observing log and radial velocities for the blue spectra (central wavelength 4102 Å). The second digit of the identification (first column) specifies the CCD used (b4 for CCD#34 and b8 for CCD#38). In the second column the barycentric-corrected Julian Date of each observation is listed, and in the third the orbital phase calculated using the ephemeris of Bildsten et al. (1997; see Table 4). The following four columns list radial velocity and associated uncertainty (in km s^{-1}) for each spectral region separately, as derived by means of cross-correlation. The last columns lists radial velocity and uncertainty derived from the cross-correlation of the ensemble of the two Si IV and the N III regions.

Ident	BJD_{mid}	ϕ_{orb}	Si IV 4089	N III 4097	Hδ 4102	Si IV 4116	Si/N ensemble
b8001	2450006.8514	0.9502	−5.99±0.82	−9.60±1.47	−5.71±0.77	−3.87±1.05	−6.27±0.51
b8002	2450006.8660	0.9518	−5.31±0.83	−8.05±1.43	−6.52±1.06	−3.89±1.04	−5.63±0.51
b8004	2450008.8590	0.1741	23.11±0.97	21.90±1.75	29.18±0.81	22.66±1.26	22.69±0.58
b8005	2450009.8532	0.2850	18.14±0.71	14.68±1.36	24.07±1.15	15.72±1.04	16.79±0.45
b8006	2450010.8543	0.3967	10.76±0.43	10.87±0.81	11.75±0.94	9.90±0.62	10.23±0.31
b8009	2450024.8594	0.9590	6.09±1.09	−0.03±0.98	8.91±0.66	0.45±0.97	3.20±0.57
b8010	2450025.8607	0.0706	4.86±0.90	2.31±1.06	...	2.53±0.92	3.61±0.55
b8011	2450026.8588	0.1820	26.59±1.12	23.12±1.60	29.68±0.81	28.54±1.15	26.87±0.90
b8020	2450057.8619	0.6405	−18.23±0.74	−12.51±2.15	−14.63±1.00	−19.45±0.76	−17.91±0.48
b8021	2450058.8607	0.7519	−19.35±0.59	−14.49±1.06	−15.56±0.75	−18.40±0.64	−18.46±0.36
b8012	2450063.8469	0.3081	22.68±0.46	18.71±0.74	29.16±0.70	21.93±0.59	21.92±0.31
b8013	2450064.8481	0.4198	9.72±0.81	15.41±1.13	0.99±0.93	13.71±0.73	12.09±0.41
b8015	2450065.8389	0.5303	−7.13±0.47	4.11±1.29	−21.38±1.24	−7.39±0.61	−5.65±0.39
b8014	2450066.8540	0.6435	−19.02±0.72	−20.26±0.88	−0.05±0.94	−21.51±0.83	−19.97±0.37
b8016	2450067.8434	0.7540	−22.61±0.62	−20.21±0.88	−12.10±0.80	−22.59±0.67	−22.03±0.34
b8017	2450068.8541	0.8667	−15.20±0.54	−18.42±0.94	−11.02±0.95	−14.97±0.55	−15.79±0.31
b8018	2450069.8483	0.9776	−5.80±0.53	−9.74±1.02	−3.89±0.67	−4.90±1.01	−6.42±0.45
b4001	2450070.8605	0.0905	12.15±1.36	11.88±2.66	...	15.24±1.50	12.94±0.76
b4002	2450071.8490	0.2008	25.06±1.27	27.46±2.28	31.48±1.62	29.22±1.33	26.52±0.74
b4003	2450072.8375	0.3111	19.07±1.87	14.32±2.82	28.90±1.59	16.48±2.06	16.85±1.09
b8019	2450074.8341	0.5338	−10.59±0.58	−2.81±3.22	−29.63±2.37	−9.11±0.76	−9.74±0.68
b4004	2450090.8574	0.3212	10.36±1.03	6.60±1.77	16.12±1.46	7.42±1.27	9.03±0.58
b4005	2450091.8458	0.4315	9.92±1.16	16.26±1.63	6.41±1.72	11.83±1.32	11.45±0.65
b4006	2450092.8394	0.5424	−6.99±1.47	−13.48±2.49	−30.25±1.99	−9.72±1.65	−8.31±0.87
b8022	2450102.8768	0.6620	−18.82±0.79	−20.89±1.30	−9.13±1.00	−21.19±0.89	−19.91±0.47
b8023	2450103.8645	0.7722	−10.24±0.49	−11.89±0.88	−6.51±0.79	−9.64±0.51	−10.53±0.30
b8024	2450104.8568	0.8829	−7.95±0.77	−12.49±0.80	−3.81±0.80	−10.03±0.60	−9.52±0.38
b8025	2450105.8724	0.9962	−7.08±0.52	−10.74±0.97	−10.95±0.97	−7.49±0.77	−7.84±0.35
b8026	2450106.8749	0.1080	17.39±0.58	16.84±1.04	18.50±1.00	18.00±0.73	17.44±0.36
b8027	2450107.8840	0.2206	31.27±0.66	29.51±1.13	35.92±0.88	30.28±0.82	30.44±0.39
b8028	2450108.8838	0.3321	28.38±0.57	23.39±1.04	27.51±0.87	27.10±0.79	27.12±0.41
b8029	2450109.8890	0.4442	1.21±0.77	8.26±1.26	3.11±1.23	3.09±0.97	2.47±0.59
b8031	2450112.8721	0.7770	−19.18±0.47	−19.61±0.86	−11.24±0.75	−17.52±0.78	−18.67±0.36
b8032	2450114.8797	0.0010	−5.11±0.51	−8.37±0.93	1.99±0.72	−4.52±0.55	−5.42±0.30
b8033	2450115.8821	0.1128	9.03±0.59	9.86±0.98	13.14±0.63	11.58±0.65	10.04±0.34
b8034	2450141.6134	0.9832	−18.14±0.51	−20.2±0.90	−13.51±0.95	−17.95±0.72	−18.29±0.33
b8035	2450142.6001	0.0933	11.09±0.48	5.45±0.95	11.44±0.70	11.51±0.56	10.37±0.33
b8036	2450143.6081	0.2058	24.15±0.83	28.57±2.00	21.91±1.91	25.11±1.25	25.44±0.54
b4007	2450148.6951	0.7732	−13.40±1.10	−10.40±1.75	−3.46±1.76	−12.34±1.39	−12.25±0.63
b8037	2450160.5202	0.0923	24.13±1.82	18.46±3.95	14.50±1.48	24.45±3.54	23.82±1.22
b8038	2450161.5224	0.2041	26.11±0.51	27.16±0.95	17.79±1.10	28.68±0.64	27.06±0.31
b8039	2450164.4970	0.5359	−13.40±0.92	1.16±1.62	−31.38±1.71	−13.39±1.30	−11.76±0.62
b8040	2450165.4959	0.6474	−18.12±0.73	−18.17±1.17	−14.60±0.92	−17.29±0.93	−17.79±0.42
b8041	2450166.5020	0.7596	−6.46±0.51	−5.09±1.10	−2.10±1.18	−5.94±0.64	−6.18±0.34
b8042	2450167.4958	0.8705	−17.52±0.68	−22.28±0.98	−23.54±0.86	−17.90±0.81	−18.30±0.39
b8043	2450168.4962	0.9820	−0.75±0.62	−4.62±0.94	1.34±0.86	−1.28±0.82	−1.55±0.35
b8044	2450169.5041	0.0945	9.16±0.57	3.45±0.84	12.14±0.61	9.16±0.82	8.45±0.37
b8045	2450170.4966	0.2053	22.85±0.59	21.88±0.93	32.35±0.72	23.03±0.59	23.04±0.39
b8046	2450181.4870	0.4312	2.93±0.57	5.82±0.94	4.43±0.92	5.62±0.81	4.50±0.36
b8047	2450182.5023	0.5444	−14.39±0.94	−13.98±2.17	−34.12±1.70	−16.61±1.16	−14.44±0.60
b8048	2450183.4901	0.6547	−6.80±0.46	−2.84±0.88	−2.11±0.87	−7.65±0.67	−5.95±0.34
b8049	2450184.4891	0.7661	−15.87±0.49	−15.43±0.87	−10.41±0.76	−18.14±0.66	−16.26±0.30
b8051	2450188.4938	0.2129	29.46±0.91	31.62±1.77	32.68±1.81	29.62±1.33	30.02±0.56
b8052	2450189.4828	0.3231	28.40±0.89	24.80±1.31	23.43±0.73	28.06±1.02	27.70±0.49
b8053	2450190.4849	0.4350	2.07±0.60	4.96±0.82	−1.59±1.01	3.29±0.62	3.05±0.31

Table 1: (continued) Observing log and radial velocities for the blue spectra.

Ident	BJD_{mid}	ϕ_{orb}	Si IV 4089	N III 4097	Hδ 4102	Si IV 4116	Si/N ensemble
b8054	2450191.4896	0.5470	-7.37 ± 0.53	-6.59 ± 1.16	-25.32 ± 1.35	-7.19 ± 0.58	-7.14 ± 0.32
b8057	2450192.4780	0.6572	-15.64 ± 0.61	-15.43 ± 1.36	-10.20 ± 1.32	-19.17 ± 1.00	-16.34 ± 0.41
b8055	2450192.4922	0.6589	-18.57 ± 0.82	-16.72 ± 1.16	-18.68 ± 1.12	-17.36 ± 0.92	-17.76 ± 0.42
b8058	2450194.4741	0.8799	-15.10 ± 0.55	-12.18 ± 1.26	-8.38 ± 0.86	-16.34 ± 0.65	-15.01 ± 0.35
b8065	2450201.4762	0.6611	-21.09 ± 0.63	-18.13 ± 1.48	-16.81 ± 1.34	-23.17 ± 0.82	-20.98 ± 0.40
b8066	2450206.5227	0.2240	25.67 ± 0.42	21.15 ± 0.89	29.39 ± 0.69	26.41 ± 0.56	25.21 ± 0.31
b8067	2450207.4795	0.3307	11.26 ± 0.54	7.20 ± 1.05	11.65 ± 1.07	11.83 ± 0.75	10.83 ± 0.39
b8068	2450208.4769	0.4420	0.81 ± 0.42	11.96 ± 1.04	-8.70 ± 1.29	6.68 ± 0.58	4.19 ± 0.38
b8069	2450213.4828	0.0004	2.11 ± 0.78	-5.33 ± 1.24	3.11 ± 0.95	-0.32 ± 0.96	0.46 ± 0.47
b4008	2450232.4546	0.1168	10.89 ± 0.99	14.61 ± 1.30	8.45 ± 1.36	12.72 ± 0.98	11.93 ± 0.49
b4009	2450233.4364	0.2263	27.77 ± 2.11	23.71 ± 3.58	25.12 ± 2.25	26.15 ± 3.47	26.71 ± 1.30
b8070	2450245.4761	0.5694	-17.17 ± 0.83	-13.83 ± 1.39	-30.63 ± 1.10	-8.93 ± 1.24	-14.49 ± 0.62
b8071	2450253.4829	0.4625	-8.58 ± 0.78	4.72 ± 1.53	-17.15 ± 1.89	-7.95 ± 0.98	-6.41 ± 0.71
b8072	2450254.4811	0.5739	-22.13 ± 0.70	-20.51 ± 1.19	-31.62 ± 1.37	-25.40 ± 0.96	-23.05 ± 0.45
b8073	2450255.4729	0.6845	-26.64 ± 1.14	-29.44 ± 1.46	-22.76 ± 1.70	-29.47 ± 1.23	-27.86 ± 0.58
b8074	2450256.4586	0.7945	-18.57 ± 0.51	-16.93 ± 0.98	-17.01 ± 0.89	-18.39 ± 0.63	-18.14 ± 0.37
b8075	2450257.4558	0.9058	-7.59 ± 0.71	-7.98 ± 1.12	-10.46 ± 0.74	-6.75 ± 0.76	-7.52 ± 0.38
b8076	2450258.4541	0.0171	1.58 ± 0.60	-3.68 ± 0.96	1.24 ± 0.73	-0.12 ± 0.78	0.19 ± 0.36
b8077	2450274.4625	0.8029	-15.19 ± 0.63	-18.65 ± 1.12	-18.32 ± 0.75	-16.82 ± 0.79	-16.16 ± 0.38
b8078	2450275.4598	0.9142	-18.85 ± 0.58	-22.16 ± 1.15	-17.43 ± 0.92	-19.40 ± 0.73	-19.60 ± 0.34
b8079	2450276.4577	0.0255	5.73 ± 0.68	8.63 ± 1.12	-0.01 ± 0.96	5.94 ± 0.98	6.64 ± 0.62
b8080	2450277.4625	0.1376	18.45 ± 2.20	17.60 ± 4.34	24.84 ± 1.94	17.75 ± 2.83	18.20 ± 1.30

Table 2: Observing log and radial velocities of the red spectra (central wavelength 5965 Å). Columns as in Table A.1.

Ident	BJD_{mid}	ϕ_{orb}	N II 5676/9	N II 5697	Al III 5686	C III 5705	N/Al ensemble
r8002r	2450006.8545	0.9505	-10.55 ± 1.83	-7.98 ± 3.97	-11.61 ± 2.62	-2.47 ± 4.25	-10.48 ± 1.38
r8001r	2450012.8401	0.6182	-8.96 ± 1.82	-1.77 ± 3.46	-4.75 ± 2.45	-1.56 ± 3.78	-7.65 ± 1.29
r8003r	2450013.8483	0.7307	-19.48 ± 1.88	-20.12 ± 3.48	-18.55 ± 2.93	-11.60 ± 4.74	-19.25 ± 1.38
r8004r	2450013.8629	0.7323	-17.66 ± 1.72	-17.13 ± 2.95	-21.05 ± 2.39	-9.17 ± 3.32	-17.92 ± 1.22
r8005r	2450014.8585	0.8433	-7.36 ± 1.59	-10.61 ± 2.69	-7.93 ± 1.79	-1.39 ± 3.77	-7.43 ± 1.16
r4001r	2450016.8637	0.0670	10.82 ± 2.11	19.61 ± 3.37	7.99 ± 4.28	15.98 ± 5.19	10.93 ± 2.06
r8006r	2450018.8369	0.2871	37.39 ± 1.99	27.55 ± 3.37	22.76 ± 2.28	35.44 ± 3.81	34.77 ± 1.43
r8007r	2450020.8546	0.5122	-18.89 ± 2.08	-20.08 ± 3.23	-6.74 ± 2.53	-9.37 ± 4.29	-17.62 ± 1.53
r8008r	2450021.8495	0.6232	-0.73 ± 1.57	22.12 ± 2.18	-8.43 ± 3.46	9.69 ± 3.98	0.23 ± 1.23
r8009r	2450022.8502	0.7349	-28.10 ± 2.48	-30.69 ± 3.31	-27.55 ± 3.42	-27.27 ± 5.06	-28.71 ± 1.74
r8010r	2450027.8605	0.2937	13.64 ± 2.57	19.88 ± 3.56	12.34 ± 4.15	13.06 ± 4.61	14.03 ± 1.82
r8011r	2450030.8599	0.6284	-23.82 ± 1.77	-12.58 ± 2.97	-30.84 ± 4.11	-13.89 ± 3.71	-23.60 ± 1.38
r8012r	2450031.8603	0.7399	-23.91 ± 1.58	-16.69 ± 3.35	-24.51 ± 3.51	-28.88 ± 3.56	-23.61 ± 1.28
r8013r	2450032.8576	0.8512	-18.27 ± 1.78	-20.77 ± 3.30	-18.17 ± 2.84	-21.56 ± 4.73	-18.39 ± 1.33
r8014r	2450033.8369	0.9604	0.35 ± 2.87	2.10 ± 4.18	24.69 ± 2.52	4.35 ± 5.05	4.42 ± 1.94
r8015r	2450033.8585	0.9628	1.40 ± 2.55	2.31 ± 4.56	22.38 ± 2.70	1.06 ± 5.73	4.71 ± 1.80
r8016r	2450034.8289	0.0711	21.60 ± 1.20	18.55 ± 3.13	40.68 ± 2.65	17.99 ± 4.06	23.75 ± 1.03
r8017r	2450034.8504	0.0735	22.53 ± 1.29	15.37 ± 3.32	42.55 ± 2.39	20.18 ± 3.99	24.57 ± 1.14
r8018r	2450035.8333	0.1831	40.00 ± 1.11	45.66 ± 2.78	50.21 ± 1.85	34.71 ± 3.62	42.18 ± 0.92
r8019r	2450035.8549	0.1855	43.71 ± 1.18	42.88 ± 3.23	43.91 ± 2.72	36.87 ± 3.67	44.08 ± 0.94
r8020r	2450036.8328	0.2947	19.16 ± 2.07	17.73 ± 2.67	3.03 ± 2.33	17.31 ± 3.37	16.56 ± 1.50
r8021r	2450036.8544	0.2971	19.57 ± 2.12	12.51 ± 2.71	-2.25 ± 2.27	16.85 ± 3.62	15.68 ± 1.51
r4003r	2450038.8435	0.5190	-17.54 ± 1.34	-17.44 ± 2.97	-19.71 ± 5.43	-7.90 ± 5.77	-17.75 ± 1.33
r8025r	2450045.8513	0.3007	26.11 ± 1.74	25.23 ± 3.72	33.13 ± 2.40	30.41 ± 3.60	27.08 ± 1.18
r8026r	2450046.8466	0.4117	-0.39 ± 2.42	1.05 ± 3.50	-1.46 ± 3.19	8.79 ± 3.50	-0.14 ± 1.69
r8027r	2450047.8487	0.5235	9.05 ± 1.73	-5.74 ± 4.05	11.23 ± 2.92	9.66 ± 4.32	8.65 ± 1.33
r8028r	2450048.8465	0.6348	-23.44 ± 2.55	-21.00 ± 3.32	-29.07 ± 2.32	-4.46 ± 3.86	-23.94 ± 1.60
r8029r	2450048.8470	0.6348	-8.82 ± 1.45	-20.36 ± 3.22	-9.64 ± 3.15	-16.39 ± 2.96	-9.73 ± 1.17
r8030r	2450049.8515	0.7469	-19.95 ± 2.03	-17.36 ± 3.38	-42.87 ± 3.15	-20.99 ± 3.78	-22.30 ± 1.51
r8031r	2450050.8522	0.8586	-14.25 ± 1.38	-16.76 ± 3.09	-27.52 ± 2.75	-10.32 ± 4.02	-15.75 ± 1.21
r8032r	2450051.8544	0.9704	4.43 ± 2.66	8.09 ± 3.53	4.68 ± 2.80	13.55 ± 4.38	4.65 ± 1.74
r4004r	2450053.8564	0.1937	50.85 ± 1.66	37.37 ± 5.58	52.52 ± 4.23	39.16 ± 4.81	50.74 ± 1.79
r4005r	2450054.8481	0.3042	4.15 ± 2.05	1.54 ± 3.39	-2.70 ± 2.38	2.91 ± 4.18	2.69 ± 1.43

Table 2: (continued) Observing log and radial velocities of the red spectra.

Ident	BJD_{mid}	ϕ_{orb}	N II 5676/9	N II 5697	Al III 5686	C III 5705	N/Al ensemble
r8033r	2450055.8502	0.4161	0.40±1.50	0.85±3.06	−2.78±2.08	−2.16±3.75	0.20±1.05
r8034r	2450056.8509	0.5277	−7.53±1.25	−8.70±2.92	4.46±1.77	1.16±3.12	−5.69±0.96
r8035r	2450060.8540	0.9742	−15.00±2.74	−15.67±3.43	−15.43±4.11	−6.45±4.48	−15.34±1.86
r8036r	2450061.8562	0.0861	22.02±1.84	9.65±2.95	11.60±4.28	23.57±4.16	19.55±1.44
r8037r	2450075.8384	0.6459	−3.83±1.22	15.16±4.20	3.24±3.46	4.70±4.05	−1.72±1.22
r8038r	2450076.8479	0.7584	−26.52±1.80	−15.07±3.61	−36.37±5.25	−10.28±4.23	−26.53±1.62
r8039r	2450077.8368	0.8688	4.94±1.95	15.11±4.61	23.66±3.03	9.78±4.65	8.15±1.51
r8040r	2450078.8472	0.9815	−24.36±0.98	−19.38±4.52	−17.02±3.46	−8.58±4.35	−23.49±1.15
r8041r	2450079.8367	0.0919	11.57±0.90	18.27±3.77	30.18±1.65	15.93±3.14	14.67±0.94
r4006r	2450086.8379	0.8728	−18.76±2.03	−10.04±3.51	−19.64±1.51	−14.80±3.92	−19.00±1.99
r8043r	2450087.8570	0.9866	4.10±1.16	8.15±2.29	−2.35±1.67	2.50±3.38	3.51±0.90
r8044r	2450088.8402	0.0962	10.75±0.75	11.67±2.78	10.45±1.89	15.39±3.07	10.84±0.67
r8045r	2450089.8375	0.2075	30.36±1.34	35.20±3.22	22.48±2.07	33.42±3.59	29.74±1.16
r8046r	2450092.8387	0.5423	−15.01±1.45	−17.44±4.16	−17.96±2.77	−17.09±3.72	−15.54±1.22
r8047r	2450093.8433	0.6544	−9.56±2.31	−10.73±5.98	−17.97±5.01	−12.05±5.11	−10.24±2.14
r8054r	2450121.8773	0.7816	−17.07±3.37	−17.86±6.70	30.69±7.65	9.82±5.02	−15.54±3.15
r8055r	2450122.8733	0.8927	−11.93±1.75	−15.18±2.76	−8.42±2.30	−10.31±3.13	−11.66±1.19
r8059r	2450124.6684	0.0929	15.52±1.16	29.21±2.66	9.09±1.69	17.83±3.37	15.79±0.87
r8060r	2450125.6780	0.2055	20.73±2.94	32.34±4.20	18.22±3.57	22.12±3.94	22.13±2.01
r8061r	2450126.6826	0.3176	25.66±1.85	23.99±3.63	3.99±2.85	18.25±3.56	22.83±1.51
r8062r	2450127.6650	0.4272	−17.39±2.26	−8.39±3.61	−16.27±3.35	−0.47±4.47	−16.52±1.64
r8063r	2450128.6655	0.5388	−19.54±2.10	−6.75±3.70	−1.80±2.70	−7.67±4.37	−16.69±1.62
r8064r	2450129.6655	0.6503	−13.41±1.46	12.19±2.63	−19.49±2.55	−6.38±3.26	−12.29±1.13
r8065r	2450130.6641	0.7618	−19.85±1.86	−7.77±3.10	−26.75±2.67	−12.17±3.34	−19.82±1.30
r8066r	2450131.6600	0.8729	−17.81±1.27	−8.50±2.80	−35.38±1.94	−11.55±3.80	−19.20±1.16
r8058r	2450139.7929	0.7801	−24.77±2.14	−22.76±3.23	−11.83±5.26	−21.80±3.69	−23.45±1.75
r8067r	2450144.5878	0.3150	19.41±3.22	10.53±4.04	23.27±5.63	−0.28±5.35	19.07±2.23
r4007r	2450145.8088	0.4512	−2.29±2.56	−14.88±4.56	7.68±3.64	−12.18±5.01	−1.72±2.07
r4008r	2450146.8191	0.5639	−0.99±1.40	−6.56±3.41	1.18±3.01	−2.13±4.06	−1.45±1.10
r4009r	2450147.5939	0.6503	−3.62±1.87	−9.59±4.04	−17.12±3.20	−11.99±3.59	−5.44±1.77
r4010r	2450150.6613	0.9925	−9.73±1.70	−1.24±4.73	−9.70±3.75	0.87±4.57	−8.88±1.67
r4011r	2450151.6933	0.1077	12.38±1.98	20.72±4.72	−2.52±3.60	7.99±4.90	11.23±1.65
r4012r	2450152.6815	0.2179	29.30±1.51	39.23±5.43	33.02±4.18	20.21±4.84	30.29±1.51
r4013r	2450153.6099	0.3215	30.23±2.29	7.33±4.96	16.94±2.75	14.20±5.21	26.49±1.85
r4014r	2450154.7464	0.4482	−10.00±2.43	−19.03±5.01	−7.69±4.18	3.42±5.48	−9.82±2.13
r4015r	2450155.5910	0.5424	3.13±1.50	0.83±6.13	15.56±2.54	...	4.45±1.33
r8068r	2450157.5238	0.7580	−27.00±1.94	−43.19±5.25	−22.48±3.66	−24.47±5.68	−27.92±1.86
r8069r	2450158.6061	0.8788	−12.59±0.80	−19.09±2.74	−12.02±2.17	−12.15±3.85	−12.97±0.84
r8070r	2450159.5155	0.9802	−9.13±1.31	−14.13±2.77	−10.42±2.02	−7.21±3.65	−9.54±0.99
r8071r	2450173.5048	0.5408	−5.99±1.03	6.96±3.24	−5.10±3.33	−22.43±4.28	−4.83±1.00
r8072r	2450175.5011	0.7635	−12.45±1.46	−14.74±3.03	−7.98±2.86	−23.09±3.63	−12.25±1.13
r8073r	2450179.5136	0.2111	33.52±1.39	29.22±3.80	35.16±2.22	18.33±5.76	33.69±1.19
r8074r	2450180.4963	0.3207	9.81±1.25	3.38±2.46	−0.81±1.39	0.54±4.16	7.62±1.08
r8075r	2450186.4952	0.9899	−5.30±3.49	−23.05±4.24	1.26±3.18	−26.45±4.43	−6.35±2.33
r8080r	2450210.4851	0.6661	−21.84±1.77	−5.38±3.78	−13.38±2.42	−12.58±3.59	−19.69±1.54
r8081r	2450211.4931	0.7785	−31.46±2.15	−31.47±4.11	−29.87±2.76	−20.96±3.94	−31.07±1.48
r8082r	2450212.4738	0.8879	−21.61±2.21	−17.08±3.26	−14.14±2.38	−16.99±5.43	−20.30±1.51
r8083r	2450214.6084	0.1260	13.19±0.92	10.66±3.38	15.65±2.20	9.60±3.60	13.50±0.90
r8085r	2450215.5859	0.2350	27.68±1.25	19.46±3.26	31.82±1.72	22.71±3.51	27.97±0.93
r8086r	2450216.5676	0.3445	45.81±3.38	17.39±4.61	27.60±5.15	5.53±5.13	41.62±2.48
r8087r	2450217.5970	0.4594	−11.90±3.06	−18.63±2.79	7.33±3.84	−6.82±3.54	−10.67±2.06
r8088r	2450218.5715	0.5681	−9.75±0.77	−6.02±2.42	−7.36±1.73	−10.32±3.04	−9.15±0.59
r8089r	2450219.5696	0.6794	−10.29±2.51	−9.08±3.48	−14.94±2.58	−10.99±3.99	−10.86±1.68
r8090r	2450221.4835	0.8929	−17.30±2.64	−9.20±3.58	−8.83±2.38	−4.39±4.15	−15.07±1.71
r8091r	2450222.4850	0.0047	−19.72±1.82	−14.78±3.01	−14.99±1.90	−17.84±2.34	−18.84±1.23
r8092r	2450223.4764	0.1153	41.98±1.09	44.61±3.38	38.34±2.55	33.40±3.88	42.02±0.92
r8093r	2450224.4782	0.2270	28.09±2.26	33.44±4.32	23.72±2.35	23.05±4.08	28.28±1.63
r8094r	2450225.4721	0.3378	16.54±3.47	5.16±4.02	3.80±4.14	6.26±3.92	13.86±2.33
r8095r	2450226.4701	0.4492	−0.95±2.81	−12.61±3.51	−1.43±2.65	−2.70±4.04	−1.58±1.83
r4016r	2450227.4833	0.5622	−7.66±1.29	4.06±3.37	1.65±2.99	−1.16±4.56	−5.07±1.08

Table 2: (continued) Observing log and radial velocities of the red spectra.

Ident	BJD_{mid}	ϕ_{orb}	N II 5676/9	N II 5697	Al III 5686	C III 5705	N/Al ensemble
r8096r	2450237.4722	0.6766	-16.46 ± 2.78	-5.10 ± 3.62	-18.93 ± 2.50	-16.08 ± 3.62	-16.06 ± 1.83
r8097r	2450238.4678	0.7876	-37.57 ± 1.67	-36.75 ± 2.91	-47.04 ± 2.16	-37.54 ± 3.55	-38.91 ± 1.18
r8098r	2450239.5075	0.9036	-15.11 ± 1.83	-21.70 ± 2.77	-17.43 ± 2.98	-27.96 ± 3.05	-16.11 ± 1.36
r8099r	2450240.4728	0.0112	9.47 ± 1.48	10.69 ± 2.24	8.60 ± 2.28	-4.39 ± 3.67	9.34 ± 1.04
r8100r	2450242.4713	0.2342	10.87 ± 1.77	11.43 ± 2.99	23.21 ± 2.73	2.56 ± 4.19	12.56 ± 1.28
r8101r	2450243.4665	0.3452	24.14 ± 1.74	5.91 ± 4.34	16.39 ± 3.30	9.93 ± 4.33	22.04 ± 1.42
r8102r	2450244.4670	0.4568	-9.88 ± 1.73	-18.64 ± 3.13	-6.95 ± 2.07	-12.12 ± 3.41	-10.04 ± 1.19
r8103r	2450246.4646	0.6797	-16.51 ± 1.92	-18.40 ± 4.07	-14.91 ± 4.19	-27.88 ± 5.06	-16.49 ± 1.54
r8104r	2450247.4716	0.7920	-29.85 ± 1.28	-33.46 ± 2.77	-39.96 ± 1.87	-28.86 ± 3.40	-31.49 ± 0.95
r8105r	2450278.4605	0.2489	7.03 ± 1.23	-3.24 ± 3.14	0.49 ± 2.73	15.53 ± 3.49	5.62 ± 1.11
r8106r	2450279.4681	0.3612	21.69 ± 2.76	9.98 ± 5.15	19.21 ± 4.54	14.13 ± 4.54	20.34 ± 2.07

Table 3: IUE observations of HD 77581.

SWP number	$JD_{\rm mid.\ exp.}$ -2440000	Exp. time (min.)	Orbital phase[a]	Velocity[b,c] (km s^{-1})
1442	3628.708	180	0.451	0.0 ± 1.5
1488	3634.118	150	0.055	5.1 ± 1.9
2087	3712.994	125	0.854	-28.6 ± 2.0
2390	3745.203	108	0.447	3.9 ± 2.8
3499	3843.592	120	0.422	7.9 ± 2.7
3510	3845.206	90	0.602	-21.1 ± 2.4
3519	3846.189	140	0.712	-16.0 ± 1.7
3550	3850.013	140	0.139	12.9 ± 2.1
3649	3862.531	130	0.535	-13.7 ± 2.2
4718	3954.268	150	0.768	-19.5 ± 1.9
18823	5323.020	150	0.456	11.7 ± 1.3
18958	5341.590	180	0.528	-1.2 ± 1.9
18970	5343.510	180	0.742	-8.5 ± 1.6
18983	5345.596	180	0.975	-2.1 ± 1.5
19012	5351.274	180	0.608	-22.0 ± 1.4
19040	5354.565	90	0.975	-7.3 ± 2.5
19061	5357.302	180	0.281	32.4 ± 1.3
22278	5746.814	150	0.732	-13.0 ± 1.7
22287	5747.819	150	0.844	-8.6 ± 2.0
22297	5748.989	125	0.974	-8.5 ± 1.5
22301	5749.818	138	0.067	4.2 ± 1.8
22309	5751.807	150	0.289	20.8 ± 1.0
22324	5752.856	150	0.406	4.4 ± 1.5
25761	6177.274	120	0.750	-19.7 ± 2.1
25764	6177.493	115	0.775	-20.5 ± 2.5
25880	6192.857	120	0.489	1.0 ± 2.1
25881	6192.973	120	0.502	2.9 ± 1.9
25882	6193.082	120	0.514	-8.2 ± 2.7
32961	7214.049	141	0.405	0.7 ± 1.9
32967	7215.043	141	0.516	-18.2 ± 2.0
33085	7233.037	130	0.524	-16.2 ± 2.0
46144	8933.056	180	0.165	19.6 ± 1.3
46151	8934.071	160	0.278	16.3 ± 1.3
46167	8935.216	165	0.406	9.8 ± 1.6
49086	9295.058	100	0.547	-13.4 ± 2.2
49093	9296.047	140	0.658	-16.6 ± 2.3
49111	9297.212	125	0.788	-24.4 ± 2.1
49128	9298.225	110	0.901	-9.0 ± 2.4
49141	9299.041	160	0.992	8.7 ± 2.3
49156	9300.050	140	0.104	7.5 ± 2.5
49173	9301.051	135	0.216	26.7 ± 2.5
49186	9302.050	150	0.327	18.4 ± 1.7
49202	9303.165	14	0.452	10.7 ± 2.3

[a] Using the ephemeris of Bildsten et al. 1997 (see Table 4).
[b] Relative to SWP 1442; corrected for shift of interstellar lines.
[c] Quoted are 1σ errors.