

Appendix (Tables 6-9): Spectral data for lines used for Boltzmann “slope” excitation temperature measurement

Table 6 Spectral data for Cr I lines

Wavelength, nm	Excited-level Energy, cm ⁻¹	gA, s ⁻¹	Wavelength, nm	Excited-level energy, cm ⁻¹	gA, s ⁻¹
373.081	26796.3	8.85E+05	389.404	33423.8	9.84E+06
373.202	26787.5	1.29E+06	390.876	33671.6	3.89E+07
374.902	47189.9	3.75E+08	391.625	33338.2	7.70E+06
376.824	47047.5	2.41E+08	391.915	33816.1	8.46E+07
388.328	33671.6	2.42E+07	392.102	33423.8	1.61E+07
388.522	33542.1	1.97E+07	392.864	33542.1	2.10E+07
388.680	33816.1	1.90E+07	394.148	33671.6	1.74E+07

Table 7 Spectral data for Fe I lines

Wavelength, nm	Excited-level Energy, cm ⁻¹	gA, s ⁻¹	Wavelength, nm	Excited-level Energy, cm ⁻¹	gA, s ⁻¹
370.109	51192.27	5.72E+08	373.713	27166.82	1.28E+08
370.557	27394.69	2.25E+07	374.336	34692.15	7.80E+07
370.925	34328.75	1.09E+08	374.826	27559.58	4.58E+07
371.644	50611.26	2.44E+08	374.948	34039.52	6.88E+08
371.993	26874.55	1.78E+08	375.361	44183.63	6.10E+07
372.256	27559.58	2.49E+07	375.823	34328.75	4.43E+08
372.762	34547.21	1.13E+08	376.379	34547.21	2.72E+08
373.332	27666.35	1.86E+07	376.554	52654.99	1.43E+09
373.486	33695.40	9.91E+08	376.719	34692.15	1.92E+08

Table 8 Spectral data for Ti I lines

Wavelength, nm	Excited-level Energy, cm ⁻¹	gA, s ⁻¹	Wavelength, nm	Excited-level Energy, cm ⁻¹	gA, s ⁻¹
498.1731	26910.71	8.58E+08	506.2101	37172.95	8.94E+07
498.9134	36013.57	1.85E+08	506.4652	20126.06	3.06E+07
499.1067	26772.97	6.42E+08	507.1467	31489.45	2.24E+07
499.7093	20006.03	2.35E+08	511.3440	31190.63	4.21E+07
499.9504	26657.41	4.74E+08	514.5460	31205.99	6.72E+07
500.7206	26564.39	3.44E+08	514.7477	19421.58	3.21E+06
501.6162	26772.97	7.07E+07	515.2185	19573.97	3.16E+06
502.0025	26657.41	1.02E+08	517.3743	19322.99	2.12E+07
502.2866	26564.39	9.73E+07	519.2969	19421.58	2.70E+07
502.4844	26494.32	6.60E+07	519.4034	36208.92	5.56E+07
503.6464	31489.45	3.55E+08	521.0384	19573.97	3.50E+07
503.8397	31374.80	2.71E+08	521.9699	19322.99	1.36E+06
503.9955	20006.03	2.25E+07	522.2673	35959.07	5.58E+07
504.0611	26494.32	4.29E+06	525.2101	19421.58	9.94E+05
504.3582	26564.39	4.85E+06			

Table 9 Spectral data for Ti II lines

Wavelength, nm	Excited-level Energy, cm ⁻¹	gA, s ⁻¹	Wavelength, nm	Excited-level Energy, cm ⁻¹	gA, s ⁻¹
320.2534	39926.819	7.62E+08	323.657	31113.676	1.10E+09
321.7054	31301.065	2.09E+08	323.904	30958.585	7.56E+08
322.2841	31113.676	2.46E+08	324.198	30836.425	5.88E+08
322.4237	43781.000	7.20E+08	324.860	40798.433	1.47E+09
322.919	30958.585	1.76E+08	325.191	30836.425	1.64E+08
323.2275	39926.819	3.87E+08	325.4245	31113.676	1.74E+08
323.451	31301.065	1.71E+09	328.765	45673.764	1.76E+09