

Predicted XUV Line Intensities
CHIANTI database - Version 7.0

Calculated with Constant pressure= $1.00e+16$ (cm^{-3} K)
50.3 to 149.9 Å

Number of lines: 714

Minimum intensity = 140.000

Units are: $\text{erg cm}^{-2} \text{sr}^{-1} \text{s}^{-1}$

Lines marked with a * do not have correspondent observed energy levels
and have approximate wavelengths.

Calculated: Mon Oct 24 21:26:16 2011

Ionization Fractions file: chianti.ioneq

ionization equilibrium: CHIANTI

produced as part of the CHIANTI atomic data base collaboration

K.P. Dere (GMU) Wed Dec 10 09:16:04 2008

Elemental Abundance file: sun_photospheric_grevesse07.abund

abundance: Grevesse N., Asplund, M. & Sauval A.J., 2007, Space Science
Reviews, 130, 105

comment: These are the latest set of "standard abundances" produced by
Grevesse
and colleagues.

produced as part of the Arcetri/Cambridge/NRL 'CHIANTI' atomic data base
collaboration

Peter Young - 19-Dec-2008

Minimum abundance = $3.98107e-08$

Differential Emission Measure file: flare_ext.dem

filename: flare.dem

dem: Dere, K.P., Cook, J.W., 1979, ApJ, 229, 772

comment: composite of August 9 1553 and 1554 UT data of an M2 X-ray class
flare

comment: modifies at high temperature (7.3 to 8.0) by G.Del Zanna to
calculate

the emissivities of the hottest ions.

produced as part of the Arcetri/Cambridge/NRL 'CHIANTI' atomic data base
collaboration

K.P.Dere and G. Del Zanna - Aug 2002

Table 1: *Line List*

Ion	λ (Å)	Transition	T_{\max}	Int
Ni XVIII	50.2550	$3p^2 P_{1/2} - 4s^2 S_{1/2}$	6.9	1.93e+03
Fe XVI	50.3610	$3s^2 S_{1/2} - 4p^2 P_{3/2}$	6.8	8.77e+03
Mg XI	50.4376	$1s 2s^3 S_1 - 1s 3p^3 P_2$	6.9	2.23e+03
Mg XI	50.4645	$1s 2s^3 S_1 - 1s 3p^3 P_1$	6.9	9.24e+02
Mg XI	50.4713	$1s 2s^3 S_1 - 1s 3p^3 P_0$	6.9	3.00e+02
Si X	50.5240	$2s^2 2p^2 P_{1/2} - 2s^2 3d^2 D_{3/2}$	6.2	7.88e+02
Fe XVI	50.5650	$3s^2 S_{1/2} - 4p^2 P_{1/2}$	6.8	4.79e+03
Si XI	50.6171	$2p^2^1 S_0 - 2p 3d^1 P_1$	6.9	1.50e+02
Si X	50.6910	$2s^2 2p^2 P_{3/2} - 2s^2 3d^2 D_{5/2}$	6.2	1.18e+03
Si X	50.7031	$2s^2 2p^2 P_{3/2} - 2s^2 3d^2 D_{3/2}$	6.2	1.56e+02
Ni XVII	50.9542	$3p^2^1 D_2 - 3s 4f^1 F_3$	6.8	2.73e+02
Ni XVIII	51.0380	$3p^2 P_{3/2} - 4s^2 S_{1/2}$	6.9	3.99e+03
Fe XVIII *	51.1330	$2s^2 2p^4 (^3P) 3p^4 P_{3/2} - 2s^2 2p^4 (^3P) 4s^4 P_{5/2}$	6.9	2.69e+02
Fe XVIII *	51.2297	$2s^2 2p^4 (^3P) 3p^4 P_{5/2} - 2s^2 2p^4 (^3P) 4s^4 P_{5/2}$	6.9	4.94e+02
Fe XVIII	51.6157	$2s^2 2p^4 (^1D) 3p^2 P_{3/2} - 2s^2 2p^4 (^3P) 4d^2 F_{5/2}$	6.9	1.69e+02
Fe XVIII *	51.6268	$2s 2p^5 (^3P) 3p^4 D_{5/2} - 2s 2p^5 (^3P) 4s^2 P_{3/2}$	6.9	3.61e+02
Fe XVIII *	51.9000	$2s^2 2p^4 (^3P) 3p^2 D_{5/2} - 2s^2 2p^4 (^3P) 4s^2 P_{3/2}$	6.9	4.53e+02
Fe XIX *	51.9401	$2s^2 2p^3 (^4S) 3d^5 D_4 - 2s^2 2p^3 (^4S) 4p^5 P_3$	7.0	1.85e+02
Fe XVIII *	51.9698	$2s^2 2p^4 (^1D) 3p^2 F_{7/2} - 2s^2 2p^4 (^1D) 4s^2 D_{5/2}$	6.9	3.72e+02
Fe XVIII *	51.9927	$2s 2p^5 (^3P) 3p^2 P_{3/2} - 2s 2p^5 (^3P) 4s^4 P_{3/2}$	6.9	3.14e+02
Fe XVIII *	52.0062	$2s^2 2p^4 (^3P) 3p^4 D_{5/2} - 2s^2 2p^4 (^3P) 4s^4 P_{3/2}$	6.9	2.79e+02
Fe XVIII *	52.0997	$2s^2 2p^4 (^3P) 3p^4 D_{7/2} - 2s^2 2p^4 (^3P) 4s^4 P_{5/2}$	6.9	6.65e+02
Fe XVIII *	52.2670	$2s^2 2p^4 (^3P) 3d^4 D_{7/2} - 2s^2 2p^4 (^3P) 4f^2 F_{7/2}$	6.9	1.55e+02
Fe XVIII *	52.2860	$2s 2p^5 (^3P) 3p^4 D_{3/2} - 2s 2p^5 (^3P) 4s^2 P_{3/2}$	6.9	5.37e+02
Si XI	52.2913	$2s 2p^1 P_1 - 2s 3s^1 S_0$	6.3	2.19e+03
Al XI	52.2991	$1s^2 2p^2 P_{1/2} - 1s^2 3d^2 D_{3/2}$	6.9	7.75e+02
Fe XVIII *	52.3051	$2s^2 2p^4 (^3P) 3d^4 D_{5/2} - 2s^2 2p^4 (^3P) 4f^4 F_{7/2}$	6.9	2.68e+02
Fe XVIII *	52.3390	$2s^2 2p^4 (^3P) 3d^4 D_{7/2} - 2s^2 2p^4 (^3P) 4f^4 F_{9/2}$	6.9	3.31e+02
Fe XVIII *	52.4148	$2s^2 2p^4 (^3P) 3d^4 D_{3/2} - 2s^2 2p^4 (^3P) 4f^4 F_{5/2}$	6.9	1.79e+02
Al XI	52.4461	$1s^2 2p^2 P_{3/2} - 1s^2 3d^2 D_{5/2}$	6.9	1.39e+03
Al XI	52.4580	$1s^2 2p^2 P_{3/2} - 1s^2 3d^2 D_{3/2}$	6.9	1.54e+02
Fe XVIII *	52.4752	$2s 2p^5 (^3P) 3p^2 P_{1/2} - 2s 2p^5 (^3P) 4s^4 P_{3/2}$	6.9	1.86e+02
Si X	52.4871	$2s 2p^2^2 D_{5/2} - 2s 2p (^3P) 3d^2 F_{7/2}$	6.2	1.95e+02
Fe XVIII *	52.5171	$2s 2p^5 (^3P) 3p^4 P_{5/2} - 2s 2p^5 (^3P) 4s^4 P_{3/2}$	6.9	8.12e+02
Fe XIX *	52.5355	$2s^2 2p^3 (^4S) 3d^3 D_2 - 2s^2 2p^3 (^4S) 4p^3 P_2$	7.0	1.70e+02
Fe XVIII *	52.5985	$2s^2 2p^4 (^3P) 3d^4 F_{5/2} - 2s^2 2p^4 (^3P) 4f^4 G_{7/2}$	6.9	1.46e+02
Si X	52.6111	$2s 2p^2^2 D_{3/2} - 2s 2p (^3P) 3d^2 F_{5/2}$	6.2	1.66e+02
Ni XVIII	52.6150	$3d^2 D_{3/2} - 4f^2 F_{5/2}$	6.9	1.82e+03
Fe XVIII *	52.6399	$2s 2p^5 (^3P) 3p^2 D_{5/2} - 2s 2p^5 (^3P) 4s^2 P_{3/2}$	6.9	5.96e+02
Mg XI	52.6531	$1s 2s^1 S_0 - 1s 3p^1 P_1$	7.0	3.39e+02
Mg XI	52.7090	$1s 2p^3 P_2 - 1s 3d^3 D_3$	6.9	2.46e+02
Fe XVIII *	52.7154	$2s^2 2p^4 (^1D) 3p^2 D_{5/2} - 2s^2 2p^4 (^1D) 4s^2 D_{5/2}$	6.9	2.25e+02
Ni XVIII	52.7200	$3d^2 D_{5/2} - 4f^2 F_{7/2}$	6.9	2.60e+03
S VIII	52.7561	$2s^2 2p^5^2 P_{3/2} - 2s^2 2p^4 (^1D) 3d^2 D_{5/2}$	6.1	1.51e+02
Fe XVIII *	52.7580	$2s^2 2p^4 (^1D) 3d^2 G_{7/2} - 2s^2 2p^4 (^1D) 4f^2 H_{9/2}$	6.9	1.62e+02
Fe XVIII *	52.7720	$2s 2p^5 (^3P) 3d^4 F_{9/2} - 2s 2p^5 (^3P) 4f^4 G_{11/2}$	6.9	1.81e+02
Fe XVIII *	52.8485	$2s^2 2p^4 (^1D) 3d^2 G_{9/2} - 2s^2 2p^4 (^1D) 4f^2 H_{11/2}$	6.9	2.60e+02
Fe XIX *	52.8553	$2s^2 2p^3 (^2D) 3d^3 D_3 - 2s^2 2p^3 (^2D) 4p^3 P_2$	7.0	3.11e+02
Fe XVIII *	52.8974	$2s^2 2p^4 (^3P) 3d^4 F_{7/2} - 2s^2 2p^4 (^3P) 4f^4 G_{9/2}$	6.9	2.00e+02

Table 1: (continued)

Ion	λ (Å)	Transition	T_{\max}	Int
Fe XV	52.9110	$3s^2 1S_0 - 3s 4p 1P_1$	6.8	3.04e+03
Fe XVIII *	52.9226	$2s^2 2p^4 (3P) 3d 4F_{3/2} - 2s^2 2p^4 (3P) 4f 4G_{5/2}$	6.9	1.71e+02
Fe XVIII *	52.9609	$2s^2 2p^4 (3P) 3d 4F_{5/2} - 2s^2 2p^4 (3P) 4f 2G_{7/2}$	6.9	3.79e+02
Fe XVIII *	52.9647	$2s^2 2p^4 (3P) 3d 4F_{9/2} - 2s^2 2p^4 (3P) 4f 4G_{11/2}$	6.9	3.33e+02
Fe XIX *	53.0329	$2s^2 2p^3 (2D) 3d 3D_2 - 2s^2 2p^3 (2D) 4p 3P_2$	7.0	6.14e+02
Fe XVIII *	53.0334	$2s 2p^5 (3P) 3p 4D_{1/2} - 2s 2p^5 (3P) 4s 2P_{3/2}$	6.9	1.74e+02
Fe XVIII *	53.0367	$2s 2p^5 (3P) 3d 4F_{7/2} - 2s 2p^5 (3P) 4f 2G_{9/2}$	6.9	2.17e+02
Fe XV *	53.1700	$3s^2 1S_0 - 3s 4p 3P_1$	6.7	3.32e+02
Fe XIX *	53.1739	$2s^2 2p^3 (2D) 3d 3D_3 - 2s^2 2p^3 (4S) 4f 3F_4$	7.0	1.84e+02
Fe XVIII *	53.2577	$2s^2 2p^4 (3P) 3d 2F_{7/2} - 2s^2 2p^4 (3P) 4f 2F_{7/2}$	6.9	1.44e+02
Fe XVIII *	53.2676	$2s^2 2p^4 (3P) 3d 2F_{7/2} - 2s^2 2p^4 (3P) 4f 2G_{9/2}$	6.9	3.44e+02
Fe XIX *	53.3023	$2s^2 2p^3 (4S) 3d 3D_3 - 2s^2 2p^3 (4S) 4p 3P_2$	7.0	8.84e+02
Fe XVIII *	53.3425	$2s^2 2p^4 (3P) 3p 4D_{3/2} - 2s^2 2p^4 (3P) 4s 2P_{3/2}$	6.9	1.74e+02
Fe XVIII *	53.3642	$2s^2 2p^4 (3P) 3d 4P_{5/2} - 2s^2 2p^4 (3P) 4f 4D_{7/2}$	6.9	1.66e+02
Fe XVIII *	53.4806	$2s 2p^5 (3P) 3d 4F_{5/2} - 2s 2p^5 (3P) 4f 2F_{7/2}$	6.9	1.80e+02
Fe XVIII *	53.5276	$2s 2p^5 (3P) 3d 4D_{7/2} - 2s 2p^5 (3P) 4f 4G_{9/2}$	6.9	1.46e+02
Fe XVIII *	53.5676	$2s^2 2p^4 (1D) 3d 2S_{1/2} - 2s^2 2p^4 (1D) 4f 2P_{1/2}$	6.9	1.91e+02
Fe XVIII *	53.5898	$2s^2 2p^4 (3P) 3d 4P_{1/2} - 2s^2 2p^4 (3P) 4f 2D_{3/2}$	6.9	2.19e+02
Fe XIX *	53.6746	$2s^2 2p^3 (2D) 3d 3S_1 - 2s^2 2p^3 (2D) 4p 3P_2$	7.0	6.28e+02
Mg XI	53.8112	$1s 2p 3P_1 - 1s 3s 3S_1$	6.9	3.46e+02
Mg XI	53.9149	$1s 2p 3P_2 - 1s 3s 3S_1$	6.9	5.84e+02
Ni XIX *	53.9358	$2p^5 3d 3D_1 - 2p^5 4p 3P_0$	7.0	2.57e+02
Fe XVIII *	53.9404	$2s 2p^5 (3P) 3d 2F_{7/2} - 2s 2p^5 (3P) 4f 4F_{9/2}$	6.9	1.52e+02
S X	54.0260	$2s 2p^4 4P_{5/2} - 2s^2 2p^2 (3P) 3p 4S_{3/2}$	6.3	2.40e+02
Fe XVIII *	54.0860	$2s^2 2p^4 (3P) 3d 4P_{3/2} - 2s^2 2p^4 (3P) 4f 2F_{5/2}$	6.9	5.53e+02
S VIII	54.1181	$2s^2 2p^5 2P_{3/2} - 2s^2 2p^4 (3P) 3d 2D_{5/2}$	6.1	1.44e+02
Fe XVI	54.1270	$3p 2P_{1/2} - 4d 2D_{3/2}$	6.8	6.76e+03
Fe XVIII *	54.1679	$2s^2 2p^4 (1D) 3p 2P_{3/2} - 2s^2 2p^4 (1D) 4s 2D_{5/2}$	6.9	1.63e+02
Fe XVIII *	54.1728	$2s^2 2p^4 (3P) 3d 2D_{5/2} - 2s^2 2p^4 (3P) 4f 4G_{7/2}$	6.9	3.06e+02
Al XI	54.2174	$1s^2 2p 2P_{1/2} - 1s^2 3s 2S_{1/2}$	6.9	3.49e+02
S X	54.2283	$2s 2p^4 4P_{3/2} - 2s^2 2p^2 (3P) 3p 4S_{3/2}$	6.3	1.89e+02
Fe XVIII *	54.3505	$2s^2 2p^4 (3P) 3d 2F_{5/2} - 2s^2 2p^4 (3P) 4f 2F_{5/2}$	6.9	1.97e+02
Al XI	54.3881	$1s^2 2p 2P_{3/2} - 1s^2 3s 2S_{1/2}$	6.9	7.05e+02
Fe XVIII *	54.4176	$2s^2 2p^4 (3P) 3d 2F_{5/2} - 2s^2 2p^4 (3P) 4f 2F_{7/2}$	6.9	1.03e+03
Si XI	54.4374	$2p^2 3P_2 - 2s 3p 3P_2$	6.3	1.66e+02
Ni XIX *	54.5309	$2p^5 3d 1P_1 - 2p^5 4p 1S_0$	7.0	3.09e+02
Fe XVI	54.7100	$3p 2P_{3/2} - 4d 2D_{5/2}$	6.8	1.20e+04
Mg XI	54.7141	$1s 2p 1P_1 - 1s 3d 1D_2$	7.0	3.28e+02
Fe XVI	54.7470	$3p 2P_{3/2} - 4d 2D_{3/2}$	6.8	1.37e+03
Ca XVIII	54.8713	$1s^2 3s 2S_{1/2} - 1s^2 4p 2P_{1/2}$	7.1	1.44e+02
Ca XVIII	55.0386	$1s^2 3s 2S_{1/2} - 1s^2 4p 2P_{3/2}$	7.1	2.70e+02
Ni XVII	55.1601	$3s 3p 1P_1 - 3s 4s 1S_0$	6.8	1.75e+03
Mg XI	55.1971	$1s 2p 1P_1 - 1s 3s 1S_0$	7.0	1.40e+03
Si IX	55.2721	$2s^2 2p^2 3P_2 - 2s^2 2p 3d 3P_2$	6.2	3.37e+02
Si IX	55.3049	$2s^2 2p^2 3P_0 - 2s^2 2p 3d 3D_1$	6.2	2.26e+02
Si IX	55.3559	$2s^2 2p^2 3P_1 - 2s^2 2p 3d 3D_2$	6.2	4.89e+02
Si IX	55.4013	$2s^2 2p^2 3P_2 - 2s^2 2p 3d 3D_3$	6.2	7.34e+02
Fe XV	55.7920	$3s 3p 3P_1 - 3s 4d 3D_2$	6.4	2.05e+02
Si IX	56.0271	$2s^2 2p^2 1D_2 - 2s^2 2p 3d 1F_3$	6.1	1.84e+02

Table 1: (continued)

Ion	λ (Å)	Transition	T_{\max}	Int
Ne IX	56.0448	1s 2s 3S_1 - 1s 4p 3P_2	6.8	2.10e+02
Fe XV	56.2000	3s 3p 3P_2 - 3s 4d 3D_3	6.4	3.58e+02
Ca XVIII	56.3925	1s ² 3p $^2P_{1/2}$ - 1s ² 4d $^2D_{3/2}$	7.1	1.66e+02
Ca XVIII	56.7181	1s ² 3p $^2P_{3/2}$ - 1s ² 4d $^2D_{5/2}$	7.1	3.00e+02
Si X	57.2083	2s 2p ² $^2D_{5/2}$ - 2s 2p (3P) 3s $^2P_{3/2}$	6.2	3.06e+02
Si X	57.3656	2s 2p ² $^2D_{3/2}$ - 2s 2p (3P) 3s $^2P_{1/2}$	6.2	2.25e+02
Ni XVII	57.5738	3s 3d 1D_2 - 3s 4f 1F_3	6.8	7.16e+02
Ca XVIII	57.6702	1s ² 3d $^2D_{3/2}$ - 1s ² 4f $^2F_{5/2}$	7.1	3.46e+02
Ca XVIII	57.7702	1s ² 3d $^2D_{5/2}$ - 1s ² 4f $^2F_{7/2}$	7.1	4.91e+02
Mg X	57.8762	1s ² 2s $^2S_{1/2}$ - 1s ² 3p $^2P_{3/2}$	6.9	7.33e+03
Mg X	57.9201	1s ² 2s $^2S_{1/2}$ - 1s ² 3p $^2P_{1/2}$	6.9	3.73e+03
Ca XVIII	58.0317	1s ² 3p $^2P_{1/2}$ - 1s ² 4s $^2S_{1/2}$	7.1	1.48e+02
Ca XVIII	58.4284	1s ² 3p $^2P_{3/2}$ - 1s ² 4s $^2S_{1/2}$	7.1	3.06e+02
Fe XVIII *	58.5331	2s ² 2p ⁴ (1D) 3d $^2G_{9/2}$ - 2s ² 2p ⁴ (1D) 4p $^2F_{7/2}$	6.9	1.52e+02
Fe XVIII *	58.6454	2s ² 2p ⁴ (3P) 3d $^2D_{3/2}$ - 2s ² 2p ⁴ (3P) 4p $^4S_{3/2}$	6.9	1.66e+02
Fe XVIII *	58.7088	2s ² 2p ⁴ (3P) 3d $^4P_{1/2}$ - 2s ² 2p ⁴ (3P) 4p $^2P_{3/2}$	6.9	1.44e+02
Fe XIV *	58.7095	3s 3p ² $^4P_{3/2}$ - 3s 3p 4d $^4D_{5/2}$	6.3	1.99e+02
Fe XVIII *	58.7641	2s ² 2p ⁴ (3P) 3d $^4F_{5/2}$ - 2s ² 2p ⁴ (3P) 4p $^4D_{3/2}$	6.9	3.38e+02
Fe XVIII *	58.7961	2s ² 2p ⁴ (3P) 3d $^4F_{9/2}$ - 2s ² 2p ⁴ (3P) 4p $^4D_{7/2}$	6.9	2.51e+02
Fe XIV *	58.8892	3s 3p ² $^4P_{5/2}$ - 3s 3p 4d $^4D_{7/2}$	6.3	2.22e+02
Fe XIV	58.9631	3s ² 3p $^2P_{1/2}$ - 3s ² 4d $^2D_{3/2}$	6.3	5.99e+02
Fe XVIII *	58.9846	2s ² 2p ⁴ (3P) 3d $^4F_{3/2}$ - 2s ² 2p ⁴ (3P) 4p $^4D_{1/2}$	6.9	1.63e+02
Fe XVIII *	59.0371	2s ² 2p ⁴ (1D) 3d $^2S_{1/2}$ - 2s ² 2p ⁴ (1D) 4p $^2P_{3/2}$	6.9	3.42e+02
Fe XVIII *	59.1060	2s ² 2p ⁴ (3P) 3d $^4P_{5/2}$ - 2s ² 2p ⁴ (3P) 4p $^2D_{3/2}$	6.9	1.62e+02
Fe XVIII *	59.1309	2s ² 2p ⁴ (3P) 3d $^2F_{7/2}$ - 2s ² 2p ⁴ (3P) 4p $^2D_{5/2}$	6.9	2.16e+02
Fe XVIII *	59.2333	2s ² 2p ⁴ (3P) 3d $^4P_{3/2}$ - 2s ² 2p ⁴ (3P) 4p $^2P_{3/2}$	6.9	5.18e+02
Fe XVIII *	59.2416	2s ² 2p ⁴ (3P) 3d $^4P_{5/2}$ - 2s ² 2p ⁴ (3P) 4p $^4S_{3/2}$	6.9	2.80e+02
Fe XV	59.4050	3s 3p 1P_1 - 3s 4d 1D_2	6.7	3.55e+03
Fe XVIII *	59.5506	2s ² 2p ⁴ (3P) 3d $^2F_{5/2}$ - 2s ² 2p ⁴ (3P) 4p $^2P_{3/2}$	6.9	1.05e+03
Fe XIV	59.5793	3s ² 3p $^2P_{3/2}$ - 3s ² 4d $^2D_{5/2}$	6.3	4.85e+02
Fe XVIII *	59.9082	2s ² 2p ⁴ (1D) 3d $^2P_{3/2}$ - 2s ² 2p ⁴ (1D) 4p $^2P_{3/2}$	6.9	3.20e+02
Fe XVIII *	59.9570	2s ² 2p ⁴ (3P) 3d $^2D_{5/2}$ - 2s ² 2p ⁴ (3P) 4p $^2D_{3/2}$	6.9	4.18e+02
Ni XVIII	59.9590	3d $^2D_{5/2}$ - 4p $^2P_{3/2}$	6.9	3.46e+02
Fe XVIII *	60.1252	2s ² 2p ⁴ (1D) 3d $^2D_{5/2}$ - 2s ² 2p ⁴ (1D) 4p $^2P_{3/2}$	6.9	4.92e+02
S VII	60.1620	2p ⁶ 1S_0 - 2p ⁵ 3d 1P_1	5.8	4.24e+02
Fe XIV *	60.1995	3s 3p ² $^2D_{5/2}$ - 3s 3p 4d $^2F_{7/2}$	6.3	1.60e+02
Ni XVIII	60.2230	3d $^2D_{3/2}$ - 4p $^2P_{1/2}$	6.9	2.08e+02
Ne IX	60.6981	1s 2p 1P_1 - 1s 4s 1S_0	6.8	1.41e+02
Si VIII	60.9890	2s ² 2p ³ $^4S_{3/2}$ - 2s ² 2p ² (3P) 3d $^4P_{1/2}$	6.1	1.69e+02
Si VIII	61.0190	2s ² 2p ³ $^4S_{3/2}$ - 2s ² 2p ² (3P) 3d $^4P_{3/2}$	6.1	3.33e+02
Fe XVIII *	61.0203	2s ² 2p ⁴ (1D) 3d $^2D_{3/2}$ - 2s ² 2p ⁴ (1D) 4p $^2P_{3/2}$	6.9	5.39e+02
Si VIII	61.0700	2s ² 2p ³ $^4S_{3/2}$ - 2s ² 2p ² (3P) 3d $^4P_{5/2}$	6.1	4.93e+02
Fe XVIII *	61.2878	2s ² 2p ⁴ (1D) 3d $^2P_{1/2}$ - 2s ² 2p ⁴ (1D) 4p $^2P_{3/2}$	6.9	1.80e+02
S VIII	61.6001	2s ² 2p ⁵ $^2P_{3/2}$ - 2s ² 2p ⁴ (1D) 3s $^2D_{5/2}$	6.0	2.75e+02
Si IX	61.6492	2s ² 2p ² 3P_2 - 2s ² 2p 3s 3P_2	6.2	1.42e+02
S XIV *	61.8693	1s ² 3s $^2S_{1/2}$ - 1s ² 5p $^2P_{3/2}$	7.1	2.57e+02
S XIV *	61.9063	1s ² 3s $^2S_{1/2}$ - 1s ² 5p $^2P_{1/2}$	7.1	1.41e+02
Si VIII	61.9140	2s ² 2p ³ $^2D_{5/2}$ - 2s ² 2p ² (1D) 3d $^2F_{7/2}$	6.0	2.21e+02
Si X *	62.3361	2s 2p ² $^2D_{5/2}$ - 2s ² 3p $^2P_{3/2}$	6.2	2.55e+02

Table 1: (continued)

Ion	λ (Å)	Transition	T_{\max}	Int
Si X *	62.3979	$2s 2p^2 \ ^2D_{3/2} - 2s^2 3p \ ^2P_{1/2}$	6.2	1.58e+02
Mg IX	62.7511	$2s^2 \ ^1S_0 - 2s 3p \ ^1P_1$	6.1	4.33e+02
Fe XVI	62.8720	$3p \ ^2P_{1/2} - 4s \ ^2S_{1/2}$	6.8	1.39e+04
Mg X	63.1520	$1s^2 2p \ ^2P_{1/2} - 1s^2 3d \ ^2D_{3/2}$	6.8	4.65e+03
Mg X	63.2953	$1s^2 2p \ ^2P_{3/2} - 1s^2 3d \ ^2D_{5/2}$	6.8	8.29e+03
S VIII	63.3041	$2s^2 2p^5 \ ^2P_{3/2} - 2s^2 2p^4 \ (^3P) 3s \ ^2P_{3/2}$	6.0	2.41e+02
Mg X	63.3109	$1s^2 2p \ ^2P_{3/2} - 1s^2 3d \ ^2D_{3/2}$	6.8	9.27e+02
Fe XX *	63.3673	$2s 2p^3 \ (^3D) 3d \ ^4F_{3/2} - 2s^2 2p^2 \ (^3P) 4d \ ^4D_{3/2}$	7.1	2.63e+02
Fe XVI	63.7110	$3p \ ^2P_{3/2} - 4s \ ^2S_{1/2}$	6.8	2.86e+04
S VIII	63.8008	$2s^2 2p^5 \ ^2P_{3/2} - 2s^2 2p^4 \ (^3P) 3s \ ^4P_{3/2}$	6.0	1.56e+02
Fe XX *	63.8505	$2s 2p^3 \ (^3D) 3d \ ^4F_{3/2} - 2s^2 2p^2 \ (^3P) 4d \ ^4F_{5/2}$	7.1	3.49e+02
S VIII	63.8861	$2s^2 2p^5 \ ^2P_{3/2} - 2s^2 2p^4 \ (^3P) 3s \ ^4P_{5/2}$	6.0	2.95e+02
Fe XV	63.9570	$3p^2 \ ^1D_2 - 3s 4f \ ^1F_3$	6.7	1.34e+03
Fe XX *	64.1942	$2s 2p^3 \ (^3D) 3d \ ^4F_{5/2} - 2s^2 2p^2 \ (^3P) 4d \ ^4F_{5/2}$	7.1	9.81e+02
Fe XX *	64.7305	$2s 2p^3 \ (^3D) 3d \ ^4G_{9/2} - 2s^2 2p^2 \ (^3P) 4d \ ^2F_{5/2}$	7.1	1.75e+02
Fe XV	64.8780	$3p^2 \ ^3P_2 - 3s 4f \ ^1F_3$	6.7	2.86e+02
S XIV	65.1043	$1s^2 3p \ ^2P_{3/2} - 1s^2 5s \ ^2S_{1/2}$	7.1	2.27e+02
S XIV	65.2542	$1s^2 3d \ ^2D_{3/2} - 1s^2 5f \ ^2F_{5/2}$	7.1	2.78e+02
S XIV	65.3084	$1s^2 3d \ ^2D_{5/2} - 1s^2 5f \ ^2F_{7/2}$	7.1	3.97e+02
Fe XX *	65.3333	$2s 2p^3 \ (^3D) 3d \ ^4F_{9/2} - 2s^2 2p^2 \ (^3P) 4d \ ^2F_{5/2}$	7.1	2.51e+02
Ne X	65.4397	$2p \ ^2P_{1/2} - 3d \ ^2D_{3/2}$	7.1	7.43e+02
Ne X	65.4466	$2s \ ^2S_{1/2} - 3p \ ^2P_{3/2}$	7.1	1.73e+03
Ne X	65.4841	$2p \ ^2P_{1/2} - 3s \ ^2S_{1/2}$	7.1	1.24e+03
Ne X	65.4932	$2s \ ^2S_{1/2} - 3p \ ^2P_{1/2}$	7.1	8.68e+02
Ne X	65.5818	$2p \ ^2P_{3/2} - 3d \ ^2D_{5/2}$	7.1	1.33e+03
Ne X	65.5973	$2p \ ^2P_{3/2} - 3d \ ^2D_{3/2}$	7.1	1.48e+02
Ne X	65.6420	$2p \ ^2P_{3/2} - 3s \ ^2S_{1/2}$	7.1	2.51e+03
Mg X	65.6736	$1s^2 2p \ ^2P_{1/2} - 1s^2 3s \ ^2S_{1/2}$	6.8	2.10e+03
Fe XX *	65.7676	$2s 2p^3 \ (^3D) 3d \ ^4G_{11/2} - 2s^2 2p^2 \ (^3P) 4d \ ^2F_{5/2}$	7.1	1.03e+03
Mg X	65.8455	$1s^2 2p \ ^2P_{3/2} - 1s^2 3s \ ^2S_{1/2}$	6.8	4.23e+03
Fe XV	66.2300	$3s 3p \ ^3P_2 - 3s 4s \ ^3S_1$	6.4	1.89e+02
Fe XVI	66.2490	$3d \ ^2D_{3/2} - 4f \ ^2F_{5/2}$	6.8	1.02e+04
Fe XVI	66.3570	$3d \ ^2D_{5/2} - 4f \ ^2F_{7/2}$	6.8	1.46e+04
Fe XVI	66.3770	$3d \ ^2D_{5/2} - 4f \ ^2F_{5/2}$	6.8	7.27e+02
Fe XIV	67.1413	$3s 3p^2 \ ^2D_{3/2} - 3s^2 4f \ ^2F_{5/2}$	6.3	1.84e+02
Fe XXIV	67.2089	$1s^2 4s \ ^2S_{1/2} - 1s^2 5p \ ^2P_{3/2}$	7.3	4.25e+02
Fe XXIV *	67.2097	$1s^2 4s \ ^2S_{1/2} - 1s^2 5p \ ^2P_{1/2}$	7.3	2.18e+02
Mg IX	67.2393	$2s 2p \ ^3P_2 - 2s 3d \ ^3D_3$	6.1	2.88e+02
Ne VIII	67.3819	$1s^2 2s \ ^2S_{1/2} - 1s^2 4p \ ^2P_{3/2}$	6.7	2.69e+02
Ne VIII	67.3865	$1s^2 2s \ ^2S_{1/2} - 1s^2 4p \ ^2P_{1/2}$	6.7	1.40e+02
O VIII	67.7220	$2p \ ^2P_{1/2} - 5d \ ^2D_{3/2}$	7.1	3.05e+02
O VIII	67.7254	$2s \ ^2S_{1/2} - 5p \ ^2P_{3/2}$	7.1	8.49e+02
O VIII	67.7262	$2p \ ^2P_{1/2} - 5s \ ^2S_{1/2}$	7.1	2.34e+02
O VIII	67.7298	$2s \ ^2S_{1/2} - 5p \ ^2P_{1/2}$	7.1	4.26e+02
O VIII	67.7896	$2p \ ^2P_{3/2} - 5d \ ^2D_{5/2}$	7.1	5.48e+02
O VIII	67.7952	$2p \ ^2P_{3/2} - 5s \ ^2S_{1/2}$	7.1	4.92e+02
Fe XX *	68.0602	$2s 2p^3 \ (^3D) 3d \ ^4P_{5/2} - 2s^2 2p^2 \ (^3P) 4d \ ^4F_{5/2}$	7.1	2.45e+02
Si IX *	68.3606	$2s 2p^3 \ ^3D_3 - 2s^2 2p 3p \ ^3P_2$	6.2	1.58e+02
Fe XXIV	68.9847	$1s^2 4p \ ^2P_{1/2} - 1s^2 5d \ ^2D_{3/2}$	7.2	1.83e+02

Table 1: (continued)

Ion	λ (Å)	Transition	T_{\max}	Int
Fe XXIV	69.4301	$1s^2 4p^2 P_{3/2} - 1s^2 5d^2 D_{5/2}$	7.2	3.33e+02
Ni XXI	69.6186	$2s^2 2p^4 ^3 P_2 - 2s 2p^5 ^1 P_1$	7.1	3.53e+02
Si VIII	69.6320	$2s^2 2p^3 ^4 S_{3/2} - 2s^2 2p^2 (^3P) 3s ^4 P_{5/2}$	6.0	2.15e+02
Fe XV	69.6820	$3s 3p ^1 P_1 - 3s 4s ^1 S_0$	6.4	8.40e+03
Fe XIV	69.6856	$3s^2 3p ^2 P_{1/2} - 3s^2 4s ^2 S_{1/2}$	6.3	2.04e+02
Fe XXIV *	69.9383	$1s^2 4d ^2 D_{3/2} - 1s^2 5f ^2 F_{5/2}$	7.2	5.68e+02
Fe XV	69.9410	$3s 3d ^3 D_1 - 3s 4f ^3 F_2$	6.4	2.39e+02
Fe XV	69.9870	$3s 3d ^3 D_2 - 3s 4f ^3 F_3$	6.4	3.18e+02
Fe XV	70.0540	$3s 3d ^3 D_3 - 3s 4f ^3 F_4$	6.4	5.38e+02
Fe XXIV *	70.1221	$1s^2 4d ^2 D_{5/2} - 1s^2 5f ^2 F_{7/2}$	7.2	8.14e+02
Fe XXIV *	70.1715	$1s^2 4f ^2 F_{5/2} - 1s^2 5g ^2 G_{7/2}$	7.2	1.54e+02
Fe XXIV *	70.2580	$1s^2 4f ^2 F_{7/2} - 1s^2 5g ^2 G_{9/2}$	7.2	2.03e+02
Fe XIV	70.6132	$3s^2 3p ^2 P_{3/2} - 3s^2 4s ^2 S_{1/2}$	6.3	4.23e+02
Fe XXIV	70.6940	$1s^2 4p ^2 P_{1/2} - 1s^2 5s ^2 S_{1/2}$	7.3	2.55e+02
Fe XXIII	71.3015	$2s 4s ^1 S_0 - 2s 5p ^1 P_1$	7.2	1.53e+02
Fe XIV *	71.3745	$3s 3p^2 ^2 D_{3/2} - 3s 3p 4s ^2 P_{1/2}$	6.3	1.22e+03
Fe XIV	71.3761	$3s 3p^2 ^2 D_{5/2} - 3s 3p 4s ^2 P_{3/2}$	6.3	5.08e+02
Fe XXIV	71.4058	$1s^2 4p ^2 P_{3/2} - 1s^2 5s ^2 S_{1/2}$	7.3	5.49e+02
Ni XXII	71.4880	$2s^2 2p^3 ^4 S_{3/2} - 2s 2p^4 ^2 P_{3/2}$	7.1	1.49e+02
Fe XXIII	71.7394	$2s 4p ^1 P_1 - 2s 5d ^1 D_2$	7.2	3.09e+02
S VII	72.0290	$2p^6 ^1 S_0 - 2p^5 3s ^1 P_1$	5.8	4.17e+02
Mg IX	72.3123	$2s 2p ^1 P_1 - 2s 3d ^1 D_2$	6.1	6.29e+02
S VII	72.6640	$2p^6 ^1 S_0 - 2p^5 3s ^3 P_1$	5.8	2.34e+02
S VII	72.8980	$2p^6 ^1 S_0 - 2p^5 3s ^3 P_2$	5.8	3.27e+02
Ar XVI *	72.9974	$1s^2 3d ^2 D_{3/2} - 1s^2 4f ^2 F_{5/2}$	7.1	1.50e+02
Ar XVI *	73.0920	$1s^2 3d ^2 D_{5/2} - 1s^2 4f ^2 F_{7/2}$	7.1	2.14e+02
Fe XV	73.4720	$3s 3d ^1 D_2 - 3s 4f ^1 F_3$	6.7	3.42e+03
Ne VIII	73.4756	$1s^2 2p ^2 P_{1/2} - 1s^2 4d ^2 D_{3/2}$	6.7	1.51e+02
Ne VIII	73.5631	$1s^2 2p ^2 P_{3/2} - 1s^2 4d ^2 D_{5/2}$	6.7	2.73e+02
Ne IX	74.3485	$1s 2s ^3 S_1 - 1s 3p ^3 P_2$	6.8	6.17e+02
Ne IX	74.3739	$1s 2s ^3 S_1 - 1s 3p ^3 P_1$	6.8	3.74e+02
Mg VIII	74.8580	$2s^2 2p ^2 P_{1/2} - 2s^2 3d ^2 D_{3/2}$	5.9	3.51e+02
Mg VIII	75.0340	$2s^2 2p ^2 P_{3/2} - 2s^2 3d ^2 D_{5/2}$	5.9	6.61e+02
Fe XIV *	75.0801	$3s 3p^2 ^2 S_{1/2} - 3s 3p 4s ^2 P_{1/2}$	6.3	2.90e+02
Fe XV	75.1670	$3p^2 ^1 D_2 - 3s 4p ^1 P_1$	6.8	3.43e+02
Fe XXII *	75.2773	$2s^2 4s ^2 S_{1/2} - 2s^2 5p ^2 P_{1/2}$	7.1	2.76e+02
Fe XXIII *	75.7093	$2s 4d ^3 D_3 - 2s 5f ^3 F_4$	7.2	1.47e+02
O VIII	75.8404	$2p ^2 P_{1/2} - 4d ^2 D_{3/2}$	7.1	6.08e+02
O VIII	75.8446	$2s ^2 S_{1/2} - 4p ^2 P_{3/2}$	7.1	1.66e+03
O VIII	75.8507	$2p ^2 P_{1/2} - 4s ^2 S_{1/2}$	7.1	6.00e+02
O VIII	75.8554	$2s ^2 S_{1/2} - 4p ^2 P_{1/2}$	7.1	8.31e+02
O VIII	75.9233	$2p ^2 P_{3/2} - 4d ^2 D_{5/2}$	7.1	1.09e+03
O VIII	75.9372	$2p ^2 P_{3/2} - 4s ^2 S_{1/2}$	7.1	1.22e+03
Fe XIV	76.0217	$3s^2 3d ^2 D_{3/2} - 3s^2 4f ^2 F_{5/2}$	6.3	9.10e+02
Fe XIV	76.1513	$3s^2 3d ^2 D_{5/2} - 3s^2 4f ^2 F_{7/2}$	6.3	5.71e+02
Fe XXIII	76.1968	$2s 4p ^1 P_1 - 2s 5s ^1 S_0$	7.2	4.15e+02
Fe XVI	76.3270	$3d ^2 D_{3/2} - 4p ^2 P_{3/2}$	6.8	2.17e+02
Fe XVI	76.4970	$3d ^2 D_{5/2} - 4p ^2 P_{3/2}$	6.8	1.97e+03
Fe XXIII *	76.7088	$2s 4d ^1 D_2 - 2s 5f ^1 F_3$	7.2	6.77e+02

Table 1: (continued)

Ion	λ (Å)	Transition	T_{\max}	Int
Fe XVI	76.7960	$3d^2 D_{3/2} - 4p^2 P_{1/2}$	6.8	1.17e+03
Fe XXII *	77.5291	$2s^2 4p^2 P_{1/2} - 2s^2 5d^2 D_{3/2}$	7.2	3.17e+02
Fe XXI *	77.5909	$2s^2 2p 4s^3 P_1 - 2s^2 2p 5p^3 P_0$	7.1	4.97e+02
Mg IX	77.7369	$2s 2p^1 P_1 - 2s 3s^1 S_0$	6.1	4.62e+02
Fe XVIII *	77.8457	$2s^2 2p^4 (^3P) 3d^4 F_{9/2} - 2s 2p^5 (^1P) 3d^2 F_{7/2}$	6.9	2.37e+02
Fe X	77.8650	$3s^2 3p^5 ^2 P_{3/2} - 3s^2 3p^4 (^3P) 4d^2 D_{5/2}$	6.1	1.94e+02
Zn XXIII	77.9451	$2s^2 2p^4 ^3 P_2 - 2s 2p^5 ^3 P_1$	7.2	2.82e+02
Ni XIX *	78.0781	$2p^5 3s^3 P_1 - 2s 2p^6 3s^1 S_0$	7.0	2.11e+03
Ne IX	78.2566	$1s 2s^1 S_0 - 1s 3p^1 P_1$	6.8	1.40e+02
Fe XIV	78.5831	$3s 3p^2 ^2 D_{5/2} - 3s^2 4p^2 P_{3/2}$	6.3	2.95e+02
Ni XIX *	78.6465	$2p^5 3d^3 F_3 - 2s 2p^6 3d^1 D_2$	7.0	6.65e+02
Fe XIV	78.7652	$3s 3p^2 ^2 D_{3/2} - 3s^2 4p^2 P_{1/2}$	6.3	4.25e+02
Fe XIX	78.8894	$2s^2 2p^4 ^3 P_2 - 2s 2p^5 ^1 P_1$	7.0	4.85e+03
Fe XXI *	79.6202	$2s^2 2p 4p^3 D_1 - 2s^2 2p 5d^3 D_1$	7.1	1.47e+02
Ni XXIII	79.9720	$2s^2 2p^2 ^3 P_0 - 2s 2p^3 ^3 S_1$	7.2	1.62e+03
Ni XX *	80.1682	$2s^2 2p^4 (^1D) 3d^2 G_{9/2} - 2s 2p^5 (^1P) 3d^2 F_{7/2}$	7.1	1.74e+02
Ni XIX *	80.2373	$2p^5 3d^3 D_3 - 2s 2p^6 3d^1 D_2$	7.0	9.14e+02
Ni XIX *	80.4393	$2p^5 3p^3 D_3 - 2s 2p^6 3p^3 P_2$	7.0	1.79e+02
Ne IX	80.4539	$1s 2p^3 P_2 - 1s 3s^3 S_1$	6.8	1.84e+02
Fe XX	80.4887	$2s^2 2p^3 ^4 S_{3/2} - 2s 2p^4 ^2 P_{3/2}$	7.1	2.14e+03
Ni XXII	80.5580	$2s^2 2p^3 ^2 D_{3/2} - 2s 2p^4 ^2 P_{3/2}$	7.1	2.38e+02
Fe XXII *	80.9096	$2s^2 4d^2 D_{3/2} - 2s^2 5f^2 F_{5/2}$	7.2	2.74e+02
Ni XIX *	80.9593	$2p^5 3d^3 F_4 - 2s 2p^6 3d^3 D_3$	7.0	2.74e+02
Fe XX *	81.4186	$2s 2p^3 (^1D) 3d^2 G_{7/2} - 2s^2 2p^2 (^3P) 4d^2 F_{7/2}$	7.1	1.77e+02
Fe XXI *	81.4595	$2s^2 2p 4p^3 P_0 - 2s^2 2p 5d^3 D_1$	7.1	2.91e+02
Ni XIX *	81.5272	$2p^5 3d^3 F_3 - 2s 2p^6 3d^3 D_2$	7.0	2.08e+02
Ne IX	81.5769	$1s 2p^1 P_1 - 1s 3d^1 D_2$	6.8	1.79e+02
Ni XXI	81.6895	$2s^2 2p^4 ^1 D_2 - 2s 2p^5 ^1 P_1$	7.1	3.12e+03
Zn XXV	82.6380	$2s^2 2p^2 ^3 P_2 - 2s 2p^3 ^3 S_1$	7.2	1.45e+02
Ne IX	82.7597	$1s 2p^1 P_1 - 1s 3s^1 S_0$	6.8	4.93e+02
Fe XX *	82.8282	$2s 2p^3 (^3S) 3d^4 D_{3/2} - 2s^2 2p^2 (^3P) 4d^4 F_{5/2}$	7.1	1.49e+02
Fe XV *	82.9810	$3s 3d^3 D_3 - 3s 4p^3 P_2$	6.4	2.37e+02
Ni XX	83.1793	$2s^2 2p^5 ^2 P_{3/2} - 2s 2p^6 ^2 S_{1/2}$	7.1	3.84e+04
Fe XX	83.2104	$2s 2p^4 ^4 P_{5/2} - 2p^5 ^2 P_{3/2}$	7.1	5.46e+02
Fe XX	83.2327	$2s^2 2p^3 ^2 D_{3/2} - 2s 2p^4 ^2 P_{1/2}$	7.1	2.51e+03
Fe XXII *	83.3949	$2s 2p (^3P) 4p^2 D_{3/2} - 2s 2p (^3P) 5s^2 P_{1/2}$	7.2	1.57e+02
Si XII	83.6276	$1s^2 3s^2 S_{1/2} - 1s^2 5p^2 P_{3/2}$	7.0	2.13e+02
Fe XX	83.6688	$2s^2 2p^3 ^4 S_{3/2} - 2s 2p^4 ^2 S_{1/2}$	7.1	4.13e+02
Mg VII	83.7650	$2s^2 2p^2 ^3 P_2 - 2s^2 2p 3d^3 P_2$	5.8	1.59e+02
Fe XIX	83.8681	$2s^2 2p^4 ^3 P_0 - 2s 2p^5 ^1 P_1$	7.0	5.28e+02
Mg VII	83.9590	$2s^2 2p^2 ^3 P_1 - 2s^2 2p 3d^3 D_2$	5.8	2.28e+02
Mg VII	84.0250	$2s^2 2p^2 ^3 P_2 - 2s^2 2p 3d^3 D_3$	5.8	3.56e+02
Ni XXII	84.0700	$2s^2 2p^3 ^2 D_{5/2} - 2s 2p^4 ^2 P_{3/2}$	7.1	2.02e+03
Si VI *	84.0740	$2s^2 2p^5 ^2 P_{3/2} - 2s^2 2p^4 (^3P) 3d^2 D_{5/2}$	5.7	1.46e+02
Si VII	84.0817	$2s^2 2p^4 ^1 D_2 - 2s^2 2p^3 (^2D) 3s^1 D_2$	5.8	1.56e+02
Fe XXI	84.2426	$2s^2 2p^2 ^3 P_1 - 2s 2p^3 ^1 P_1$	7.1	6.65e+02
Ni XXII	84.2510	$2s^2 2p^3 ^2 D_{3/2} - 2s 2p^4 ^2 S_{1/2}$	7.1	4.38e+02
Fe XIX	84.8783	$2s^2 2p^4 ^3 P_1 - 2s 2p^5 ^1 P_1$	7.0	3.33e+02
Zn XXIII	85.0178	$2s^2 2p^4 ^3 P_2 - 2s 2p^5 ^3 P_2$	7.2	7.29e+02

Table 1: (continued)

Ion	λ (Å)	Transition	T_{\max}	Int
Ni XXII	85.0320	$2s^2 2p^3 {}^4S_{3/2} - 2s 2p^4 {}^2D_{3/2}$	7.1	1.99e+02
Mg VII	85.4080	$2s^2 2p^2 {}^1D_2 - 2s^2 2p 3d {}^1F_3$	5.8	2.68e+02
Co XX	86.1880	$2s^2 2p^4 {}^1D_2 - 2s 2p^5 {}^1P_1$	7.1	1.44e+02
Mg VIII	86.8450	$2s 2p^2 {}^2D_{5/2} - 2s 2p ({}^3P) 3s {}^2P_{3/2}$	5.9	1.72e+02
Si VII	86.9144	$2s^2 2p^4 {}^3P_2 - 2s^2 2p^3 ({}^4S) 3s {}^5S_2$	5.8	1.43e+02
Fe XIX	86.9990	$2s 2p^5 {}^3P_1 - 2p^6 {}^1S_0$	7.0	3.34e+02
Ni XX *	87.3657	$2s^2 2p^4 ({}^3P) 3d {}^4F_{9/2} - 2s 2p^5 ({}^3P) 3d {}^4D_{7/2}$	7.1	2.11e+02
Ni XIX *	87.4526	$2p^5 3s {}^1P_1 - 2s 2p^6 3s {}^1S_0$	7.0	1.00e+03
Ni XXIV	87.4601	$2s^2 2p {}^2P_{1/2} - 2s 2p^2 {}^2P_{3/2}$	7.2	8.26e+02
Ni XXIII	87.6690	$2s^2 2p^2 {}^3P_1 - 2s 2p^3 {}^3S_1$	7.2	3.84e+03
Fe XVIII	88.0283	$2s^2 2p^4 ({}^1D) 3s {}^2D_{5/2} - 2s 2p^5 ({}^1P) 3s {}^2P_{3/2}$	6.9	7.05e+02
Ne VIII	88.0817	$1s^2 2s {}^2S_{1/2} - 1s^2 3p {}^2P_{3/2}$	6.7	1.51e+03
Ne VIII	88.1196	$1s^2 2s {}^2S_{1/2} - 1s^2 3p {}^2P_{1/2}$	6.7	7.70e+02
Fe XX	88.1960	$2s 2p^4 {}^4P_{3/2} - 2p^5 {}^2P_{3/2}$	7.1	2.69e+02
Co XIX	88.3500	$2s^2 2p^5 {}^2P_{3/2} - 2s 2p^6 {}^2S_{1/2}$	7.0	1.30e+03
Ni XX *	88.4380	$2s^2 2p^4 ({}^3P) 3d {}^2F_{7/2} - 2s 2p^5 ({}^3P) 3d {}^2D_{5/2}$	7.1	1.68e+02
Ni XIX *	88.5344	$2p^5 3d {}^1D_2 - 2s 2p^6 3d {}^1D_2$	7.0	5.52e+02
Si XII	88.5647	$1s^2 3p {}^2P_{3/2} - 1s^2 5s {}^2S_{1/2}$	7.0	1.82e+02
Fe XVIII *	88.5878	$2s^2 2p^4 ({}^1D) 3p {}^2F_{7/2} - 2s 2p^5 ({}^1P) 3p {}^2D_{5/2}$	6.9	2.88e+02
Ni XXIV	88.6114	$2s^2 2p {}^2P_{1/2} - 2s 2p^2 {}^2P_{1/2}$	7.2	4.75e+04
S XIV	88.7502	$1s^2 3s {}^2S_{1/2} - 1s^2 4p {}^2P_{3/2}$	7.1	5.57e+02
Fe XVIII *	88.8081	$2s^2 2p^4 ({}^1D) 3d {}^2F_{5/2} - 2s 2p^5 ({}^1P) 3d {}^2D_{5/2}$	6.9	3.23e+02
Ni XXI	88.8219	$2s^2 2p^4 {}^3P_2 - 2s 2p^5 {}^3P_1$	7.1	1.03e+04
Si XII	88.8369	$1s^2 3d {}^2D_{3/2} - 1s^2 5f {}^2F_{5/2}$	7.0	2.16e+02
Si XII	88.8914	$1s^2 3d {}^2D_{5/2} - 1s^2 5f {}^2F_{7/2}$	7.0	3.09e+02
S XIV	88.8985	$1s^2 3s {}^2S_{1/2} - 1s^2 4p {}^2P_{1/2}$	7.1	2.91e+02
Fe XVIII *	88.9046	$2s^2 2p^4 ({}^1D) 3d {}^2G_{7/2} - 2s 2p^5 ({}^1P) 3d {}^2F_{5/2}$	6.9	8.72e+02
Fe XVIII *	89.0169	$2s^2 2p^4 ({}^1D) 3d {}^2G_{9/2} - 2s 2p^5 ({}^1P) 3d {}^2F_{7/2}$	6.9	2.21e+03
Ni XIX *	89.6695	$2p^5 3d {}^1F_3 - 2s 2p^6 3d {}^1D_2$	7.0	6.64e+02
Fe XIX *	89.6716	$2s^2 2p^3 ({}^2D) 3d {}^3F_4 - 2s 2p^4 ({}^2P) 3d {}^3F_4$	7.0	3.32e+02
Fe XVIII *	89.7225	$2s^2 2p^4 ({}^1D) 3d {}^2F_{7/2} - 2s 2p^5 ({}^1P) 3d {}^2D_{5/2}$	6.9	9.48e+02
Fe XVII	89.7602	$2s^2 2p^5 3s {}^1P_1 - 2s 2p^6 3s {}^1S_0$	6.8	4.42e+02
Zn XXIV	90.0262	$2s^2 2p^3 {}^4S_{3/2} - 2s 2p^4 {}^4P_{1/2}$	7.2	2.56e+02
Fe XIX *	90.0850	$2s^2 2p^3 ({}^2D) 3s {}^3D_3 - 2s 2p^4 ({}^2P) 3s {}^3P_2$	7.0	5.44e+02
Fe XXI *	90.4118	$2s^2 2p 4d {}^3D_1 - 2s^2 2p 5p {}^3P_0$	7.1	1.66e+02
Fe XX	90.5943	$2s^2 2p^3 {}^2D_{3/2} - 2s 2p^4 {}^2P_{3/2}$	7.1	6.47e+03
Fe XIX *	90.6578	$2s^2 2p^3 ({}^2D) 3d {}^3G_5 - 2s 2p^4 ({}^2P) 3d {}^3F_4$	7.0	2.41e+03
Fe X *	90.6830	$3s 3p^6 {}^2S_{1/2} - 3s 3p^5 ({}^3P) 4s {}^2P_{3/2}$	6.1	1.56e+02
Fe XVII *	90.8201	$2s^2 2p^5 3s {}^3P_2 - 2s 2p^6 3s {}^3S_1$	6.9	4.79e+02
Fe XIX *	90.8404	$2s^2 2p^3 ({}^2D) 3d {}^1G_4 - 2s 2p^4 ({}^2P) 3d {}^1F_3$	7.0	4.64e+02
Fe XIV	91.0079	$3s^2 3d {}^2D_{5/2} - 3s^2 4p {}^2P_{3/2}$	6.3	2.91e+02
Fe XIX	91.0128	$2s^2 2p^4 {}^1D_2 - 2s 2p^5 {}^1P_1$	7.0	5.17e+04
Ni XXII	91.2170	$2s^2 2p^3 {}^2P_{1/2} - 2s 2p^4 {}^2P_{3/2}$	7.1	1.85e+02
Fe XXI	91.2678	$2s^2 2p^2 {}^3P_0 - 2s 2p^3 {}^3S_1$	7.1	3.44e+04
Fe XIV	91.2729	$3s^2 3d {}^2D_{3/2} - 3s^2 4p {}^2P_{1/2}$	6.3	4.32e+02
O VII *	91.4488	$1s 2s {}^3S_1 - 1s 4p {}^3P_2$	6.4	1.53e+02
Fe XVII *	91.6469	$2s^2 2p^5 3d {}^3F_4 - 2s 2p^6 3d {}^3D_3$	6.9	1.98e+02
Ni XXIII	91.8690	$2s^2 2p^2 {}^3P_2 - 2s 2p^3 {}^3S_1$	7.2	9.63e+03
Fe XVIII *	91.9888	$2s^2 2p^4 ({}^1D) 3d {}^2F_{7/2} - 2s 2p^5 ({}^1P) 3d {}^2F_{7/2}$	6.9	3.72e+02

Table 1: (continued)

Ion	λ (Å)	Transition	T_{\max}	Int
Zn XXIV	92.1610	$2s^2 2p^3 \ ^4S_{3/2} - 2s 2p^4 \ ^4P_{3/2}$	7.2	4.94e+02
Fe XIX *	92.3430	$2s^2 2p^3 \ (^2D) 4s \ ^3D_3 - 2s 2p^4 \ (^2P) 4s \ ^3P_2$	7.0	3.28e+02
Ni XX *	92.5163	$2s^2 2p^4 \ (^3P) 3d \ ^4F_{9/2} - 2s 2p^5 \ (^3P) 3d \ ^2F_{7/2}$	7.1	1.43e+02
Co XXII	92.5890	$2s^2 2p^2 \ ^3P_1 - 2s 2p^3 \ ^3S_1$	7.1	2.18e+02
Fe XX	92.6127	$2s^2 2p^3 \ ^2P_{1/2} - 2s 2p^4 \ ^2P_{1/2}$	7.1	3.12e+02
Ni XXIII	92.7160	$2s^2 2p^2 \ ^3P_0 - 2s 2p^3 \ ^3P_1$	7.2	1.56e+03
S XIV	93.0624	$1s^2 3p \ ^2P_{1/2} - 1s^2 4d \ ^2D_{3/2}$	7.1	3.29e+02
S XIV	93.4005	$1s^2 3p \ ^2P_{3/2} - 1s^2 4d \ ^2D_{5/2}$	7.1	5.95e+02
Fe XX	93.7811	$2s^2 2p^3 \ ^2D_{5/2} - 2s 2p^4 \ ^2P_{3/2}$	7.1	4.30e+04
Fe XVIII	93.9322	$2s^2 2p^5 \ ^2P_{3/2} - 2s 2p^6 \ ^2S_{1/2}$	6.9	3.94e+05
Fe X	94.0120	$3s^2 3p^5 \ ^2P_{3/2} - 3s^2 3p^4 \ (^1D) 4s \ ^2D_{5/2}$	6.1	2.41e+02
Ni XX	94.4950	$2s^2 2p^5 \ ^2P_{1/2} - 2s 2p^6 \ ^2S_{1/2}$	7.1	1.14e+04
Fe XX	94.6432	$2s^2 2p^3 \ ^2D_{3/2} - 2s 2p^4 \ ^2S_{1/2}$	7.1	9.65e+03
Co XX	94.9300	$2s^2 2p^4 \ ^3P_2 - 2s 2p^5 \ ^3P_1$	7.1	4.91e+02
Co XXIII	95.1710	$2s^2 2p \ ^2P_{1/2} - 2s 2p^2 \ ^2P_{1/2}$	7.2	2.49e+03
S XIV	95.3863	$1s^2 3d \ ^2D_{3/2} - 1s^2 4f \ ^2F_{5/2}$	7.1	6.32e+02
Fe XX *	95.4020	$2s^2 2p^2 \ (^3P) 3s \ ^4P_{3/2} - 2s 2p^3 \ (^3S) 3s \ ^4S_{3/2}$	7.1	1.49e+02
Mg VI	95.4829	$2s^2 2p^3 \ ^4S_{3/2} - 2s^2 2p^2 \ (^3P) 3d \ ^4P_{5/2}$	5.7	1.84e+02
S XIV	95.4884	$1s^2 3d \ ^2D_{5/2} - 1s^2 4f \ ^2F_{7/2}$	7.1	8.99e+02
Si VI	95.5548	$2s^2 2p^5 \ ^2P_{3/2} - 2s^2 2p^4 \ (^1D) 3s \ ^2D_{5/2}$	5.7	3.41e+02
Si XIV	95.7112	$3p \ ^2P_{3/2} - 4s \ ^2S_{1/2}$	7.2	1.53e+02
Ni XXI	95.8637	$2s^2 2p^4 \ ^3P_2 - 2s 2p^5 \ ^3P_2$	7.1	2.98e+04
Fe XX	95.9207	$2s^2 2p^3 \ ^4S_{3/2} - 2s 2p^4 \ ^2D_{3/2}$	7.1	1.46e+03
Ni XXII	95.9810	$2s^2 2p^3 \ ^2P_{1/2} - 2s 2p^4 \ ^2S_{1/2}$	7.1	3.02e+02
Fe X	96.1210	$3s^2 3p^5 \ ^2P_{3/2} - 3s^2 3p^4 \ (^3P) 4s \ ^2P_{3/2}$	6.1	3.23e+02
Mn XVIII	96.2398	$2s^2 2p^4 \ ^1D_2 - 2s 2p^5 \ ^1P_1$	6.9	2.39e+02
S XIV	96.3690	$1s^2 3p \ ^2P_{1/2} - 1s^2 4s \ ^2S_{1/2}$	7.1	2.86e+02
Si V	96.4400	$2p^6 \ ^1S_0 - 2p^5 3d \ ^1P_1$	5.6	1.84e+02
Fe XIX *	96.4886	$2s^2 2p^3 \ (^4S) 4p \ ^3P_2 - 2s^2 2p^3 \ (^4S) 5d \ ^3D_3$	7.0	1.62e+02
Si VI	96.4912	$2s^2 2p^5 \ ^2P_{1/2} - 2s^2 2p^4 \ (^1D) 3s \ ^2D_{3/2}$	5.7	1.94e+02
S XIV	96.7915	$1s^2 3p \ ^2P_{3/2} - 1s^2 4s \ ^2S_{1/2}$	7.1	5.82e+02
Ni XXI	96.8029	$2s^2 2p^4 \ ^3P_0 - 2s 2p^5 \ ^3P_1$	7.1	4.32e+03
Co XXII	96.8840	$2s^2 2p^2 \ ^3P_2 - 2s 2p^3 \ ^3S_1$	7.1	5.21e+02
Ni XXI	97.1253	$2s^2 2p^4 \ ^1S_0 - 2s 2p^5 \ ^1P_1$	7.1	1.85e+02
Fe XVIII	97.2269	$2s^2 2p^4 \ (^3P) 3s \ ^4P_{5/2} - 2s 2p^5 \ (^3P) 3s \ ^2P_{3/2}$	6.9	2.74e+02
Mg VI	97.2781	$2s^2 2p^3 \ ^2D_{5/2} - 2s^2 2p^2 \ (^1D) 3d \ ^2F_{7/2}$	5.7	1.52e+02
Zn XXV	97.4170	$2s^2 2p^2 \ ^3P_0 - 2s 2p^3 \ ^3D_1$	7.2	1.13e+03
Ne VII	97.4960	$2s^2 \ ^1S_0 - 2s 3p \ ^1P_1$	5.8	3.79e+02
Mn XX	97.5070	$2s^2 2p^2 \ ^3P_0 - 2s 2p^3 \ ^3S_1$	7.1	2.89e+02
Fe XXI	97.8641	$2s^2 2p^2 \ ^3P_1 - 2s 2p^3 \ ^3S_1$	7.1	8.56e+04
Fe XX	98.0735	$2s 2p^4 \ ^2D_{3/2} - 2p^5 \ ^2P_{1/2}$	7.1	2.69e+03
Ne VIII	98.1156	$1s^2 2p \ ^2P_{1/2} - 1s^2 3d \ ^2D_{3/2}$	6.7	1.05e+03
Ni XXII	98.1810	$2s^2 2p^3 \ ^2D_{3/2} - 2s 2p^4 \ ^2D_{3/2}$	7.1	2.05e+03
Fe XVII	98.2494	$2s^2 2p^5 3s \ ^3P_1 - 2s 2p^6 3s \ ^1S_0$	6.8	2.54e+02
Ne VI	98.2570	$2s^2 2p \ ^2P_{3/2} - 2s^2 4d \ ^2D_{5/2}$	5.7	2.01e+02
Ne VIII	98.2601	$1s^2 2p \ ^2P_{3/2} - 1s^2 3d \ ^2D_{5/2}$	6.7	1.88e+03
Ne VIII	98.2746	$1s^2 2p \ ^2P_{3/2} - 1s^2 3d \ ^2D_{3/2}$	6.7	2.09e+02
Fe XX	98.3552	$2s^2 2p^3 \ ^2P_{3/2} - 2s 2p^4 \ ^2P_{1/2}$	7.1	7.19e+03
Fe XXI	98.3931	$2s^2 2p^2 \ ^1D_2 - 2s 2p^3 \ ^1P_1$	7.1	7.89e+03

Table 1: (continued)

Ion	λ (Å)	Transition	T_{\max}	Int
Co XIX	99.0200	$2s^2 2p^5 {}^2P_{1/2} - 2s 2p^6 {}^2S_{1/2}$	7.0	4.05e+02
Fe XXI	99.0216	$2s^2 2p^2 {}^3P_2 - 2s 2p^3 {}^1D_2$	7.1	1.76e+03
Mn XIX	99.1680	$2s^2 2p^3 {}^2D_{5/2} - 2s 2p^4 {}^2P_{3/2}$	7.0	1.51e+02
Si VI	99.4596	$2s^2 2p^5 {}^2P_{3/2} - 2s^2 2p^4 ({}^3P) 3s {}^2P_{3/2}$	5.7	3.68e+02
Fe XVIII *	99.5649	$2s^2 2p^4 ({}^3P) 3d {}^4F_{9/2} - 2s 2p^5 ({}^3P) 3d {}^4D_{7/2}$	6.9	2.04e+03
Fe XVIII *	99.5980	$2s^2 2p^4 ({}^3P) 4s {}^2P_{3/2} - 2s^2 2p^4 ({}^3P) 5p {}^2P_{3/2}$	6.9	4.97e+02
Fe XX *	99.6386	$2s^2 2p^2 ({}^3P) 3s {}^4P_{5/2} - 2s 2p^3 ({}^3S) 3s {}^4S_{3/2}$	7.1	3.15e+02
Fe XVIII	99.7534	$2s^2 2p^4 ({}^3P) 3s {}^2P_{3/2} - 2s 2p^5 ({}^3P) 3s {}^2P_{3/2}$	6.9	2.60e+02
Mn XVII	100.0000	$2s^2 2p^5 {}^2P_{3/2} - 2s 2p^6 {}^2S_{1/2}$	6.9	2.01e+03
Ni XXII	100.1310	$2s^2 2p^3 {}^2P_{3/2} - 2s 2p^4 {}^2P_{3/2}$	7.1	1.47e+02
Ni XXI	100.2448	$2s^2 2p^4 {}^3P_1 - 2s 2p^5 {}^3P_1$	7.1	3.12e+03
Zn XXIII	100.2756	$2s^2 2p^4 {}^3P_1 - 2s 2p^5 {}^3P_2$	7.2	1.45e+02
Fe XVIII *	100.6130	$2s^2 2p^4 ({}^3P) 3d {}^2F_{7/2} - 2s 2p^5 ({}^3P) 3d {}^4D_{7/2}$	6.9	5.46e+02
Si VI	100.6405	$2s^2 2p^5 {}^2P_{3/2} - 2s^2 2p^4 ({}^3P) 3s {}^4P_{3/2}$	5.7	2.21e+02
Fe XVIII *	100.7230	$2s^2 2p^4 ({}^3P) 3d {}^2F_{7/2} - 2s 2p^5 ({}^3P) 3d {}^2D_{5/2}$	6.9	7.79e+02
Fe XVIII *	100.7353	$2s^2 2p^4 ({}^3P) 3d {}^2F_{7/2} - 2s 2p^5 ({}^3P) 3d {}^4D_{5/2}$	6.9	1.15e+03
Fe XXII	100.7747	$2s^2 2p {}^2P_{1/2} - 2s 2p^2 {}^2P_{3/2}$	7.1	2.43e+04
Fe XVIII *	100.8945	$2s^2 2p^4 ({}^3P) 4s {}^2P_{1/2} - 2s^2 2p^4 ({}^3P) 5p {}^2D_{3/2}$	6.9	1.91e+02
Si VI	100.9532	$2s^2 2p^5 {}^2P_{3/2} - 2s^2 2p^4 ({}^3P) 3s {}^4P_{5/2}$	5.7	3.87e+02
Fe XIX	101.5498	$2s^2 2p^4 {}^3P_2 - 2s 2p^5 {}^3P_1$	7.0	1.57e+05
Fe XVIII *	101.6592	$2s^2 2p^4 ({}^3P) 3d {}^4D_{7/2} - 2s 2p^5 ({}^3P) 3d {}^2F_{7/2}$	6.9	2.88e+02
Fe XVIII *	101.7426	$2s^2 2p^4 ({}^1S) 3d {}^2D_{5/2} - 2s 2p^5 ({}^1P) 3d {}^2D_{5/2}$	6.9	1.86e+02
Fe XX	101.8189	$2s^2 2p^3 {}^2P_{1/2} - 2s 2p^4 {}^2P_{3/2}$	7.1	3.60e+03
Co XX	101.8810	$2s^2 2p^4 {}^3P_2 - 2s 2p^5 {}^3P_2$	7.1	1.47e+03
Cr XVII	101.9289	$2s^2 2p^4 {}^1D_2 - 2s 2p^5 {}^1P_1$	6.9	2.67e+02
Ni XXIV	102.1029	$2s^2 2p {}^2P_{3/2} - 2s 2p^2 {}^2P_{3/2}$	7.2	5.52e+03
Fe XXII	102.2133	$2s^2 2p {}^2P_{1/2} - 2s 2p^2 {}^2S_{1/2}$	7.1	2.66e+03
Fe XXI	102.2172	$2s^2 2p^2 {}^3P_2 - 2s 2p^3 {}^3S_1$	7.1	1.96e+05
O VIII	102.3478	$2p {}^2P_{1/2} - 3d {}^2D_{3/2}$	7.1	1.38e+03
O VIII	102.3554	$2s {}^2S_{1/2} - 3p {}^2P_{3/2}$	7.1	3.49e+03
O VIII	102.3921	$2p {}^2P_{1/2} - 3s {}^2S_{1/2}$	7.1	2.27e+03
O VIII	102.4021	$2s {}^2S_{1/2} - 3p {}^2P_{1/2}$	7.1	1.75e+03
O VIII	102.4899	$2p {}^2P_{3/2} - 3d {}^2D_{5/2}$	7.1	2.48e+03
O VIII	102.5054	$2p {}^2P_{3/2} - 3d {}^2D_{3/2}$	7.1	2.75e+02
Fe XVIII	102.5208	$2s^2 2p^4 ({}^3P) 3s {}^4P_{5/2} - 2s 2p^5 ({}^3P) 3s {}^4P_{3/2}$	6.9	3.20e+02
O VIII	102.5498	$2p {}^2P_{3/2} - 3s {}^2S_{1/2}$	7.1	4.58e+03
Ne VIII	102.9107	$1s^2 2p {}^2P_{1/2} - 1s^2 3s {}^2S_{1/2}$	6.7	5.06e+02
Ne VIII	103.0857	$1s^2 2p {}^2P_{3/2} - 1s^2 3s {}^2S_{1/2}$	6.7	1.02e+03
Fe XVIII *	103.1405	$2s^2 2p^4 ({}^3P) 3d {}^4D_{5/2} - 2s 2p^5 ({}^3P) 3d {}^4F_{5/2}$	6.9	1.93e+02
Co XX	103.1550	$2s^2 2p^4 {}^3P_0 - 2s 2p^5 {}^3P_1$	7.1	2.18e+02
Ni XXIII	103.2220	$2s^2 2p^2 {}^3P_1 - 2s 2p^3 {}^3P_1$	7.2	7.11e+03
Fe XVIII *	103.3031	$2s^2 2p^4 ({}^3P) 3d {}^4D_{7/2} - 2s 2p^5 ({}^3P) 3d {}^4F_{5/2}$	6.9	4.65e+02
Ni XXII	103.3090	$2s^2 2p^3 {}^4S_{3/2} - 2s 2p^4 {}^4P_{1/2}$	7.1	1.26e+04
Fe XIX *	103.3734	$2s^2 2p^3 ({}^2P) 3d {}^3F_4 - 2s 2p^4 ({}^2P) 3d {}^3F_4$	7.0	2.18e+02
Mn XX	103.5370	$2s^2 2p^2 {}^3P_1 - 2s 2p^3 {}^3S_1$	7.1	7.32e+02
Fe IX	103.5755	$3s^2 3p^6 {}^1S_0 - 3s^2 3p^5 4s {}^1P_1$	5.9	5.20e+02
Ni XXIV	103.6755	$2s^2 2p {}^2P_{3/2} - 2s 2p^2 {}^2P_{1/2}$	7.2	4.86e+02
Fe XXI	103.7596	$2s 2p^3 {}^3D_1 - 2p^4 {}^3P_1$	7.1	1.84e+02
Fe XXI	103.8331	$2s 2p^3 {}^3D_2 - 2p^4 {}^3P_1$	7.1	2.74e+02

Table 1: (continued)

Ion	λ (Å)	Transition	T_{\max}	Int
Fe XVIII	103.9480	$2s^2 2p^5 \ ^2P_{1/2} - 2s 2p^6 \ ^2S_{1/2}$	6.9	1.30e+05
Fe XVIII *	103.9852	$2s^2 2p^4 \ (^3P) 3d \ ^4P_{3/2} - 2s 2p^5 \ (^3P) 3d \ ^4D_{5/2}$	6.9	2.64e+02
Cr XIX	104.2120	$2s^2 2p^2 \ ^3P_0 - 2s 2p^3 \ ^3S_1$	7.0	4.58e+02
Fe XXI	104.2722	$2s 2p^3 \ ^3D_1 - 2p^4 \ ^3P_0$	7.1	9.17e+02
Fe XVIII *	104.3241	$2s^2 2p^4 \ (^3P) 3d \ ^4F_{9/2} - 2s 2p^5 \ (^3P) 3d \ ^2F_{7/2}$	6.9	1.59e+03
Zn XXIV	104.5429	$2s^2 2p^3 \ ^4S_{3/2} - 2s 2p^4 \ ^4P_{5/2}$	7.2	4.80e+02
Zn XXVII	104.6740	$2s^2 \ ^1S_0 - 2s 2p \ ^1P_1$	7.4	2.01e+03
Fe XVIII *	104.9671	$2s^2 2p^4 \ (^3P) 3d \ ^2F_{5/2} - 2s 2p^5 \ (^3P) 3d \ ^4D_{5/2}$	6.9	5.70e+02
Cr XVIII	104.9850	$2s^2 2p^3 \ ^2D_{5/2} - 2s 2p^4 \ ^2P_{3/2}$	6.9	1.73e+02
Fe IX	105.1961	$3s^2 3p^6 \ ^1S_0 - 3s^2 3p^5 \ 4s \ ^3P_1$	5.9	2.83e+02
Fe XVIII	105.3339	$2s^2 2p^4 \ (^3P) 3s \ ^2P_{3/2} - 2s 2p^5 \ (^3P) 3s \ ^4P_{3/2}$	6.9	1.74e+02
Fe XVIII	105.3383	$2s^2 2p^4 \ (^3P) 3s \ ^4P_{1/2} - 2s 2p^5 \ (^3P) 3s \ ^2P_{3/2}$	6.9	1.95e+02
Fe XVIII *	105.4754	$2s^2 2p^4 \ (^3P) 3d \ ^2F_{7/2} - 2s 2p^5 \ (^3P) 3d \ ^2F_{7/2}$	6.9	9.69e+02
Fe XVIII *	105.5546	$2s^2 2p^4 \ (^3P) 3d \ ^4D_{7/2} - 2s 2p^5 \ (^3P) 3d \ ^4F_{7/2}$	6.9	4.97e+02
Si XIII	105.6307	$1s 3s \ ^3S_1 - 1s 4p \ ^3P_2$	7.1	1.71e+02
Co XX	105.7210	$2s^2 2p^4 \ ^3P_1 - 2s 2p^5 \ ^3P_1$	7.1	1.63e+02
Fe XVIII *	105.8316	$2s^2 2p^4 \ (^3P) 3d \ ^4D_{5/2} - 2s 2p^5 \ (^3P) 3d \ ^4P_{5/2}$	6.9	1.94e+02
Fe XVIII *	105.9874	$2s^2 2p^4 \ (^3P) 3s \ ^4P_{5/2} - 2s 2p^5 \ (^3P) 3s \ ^4P_{5/2}$	6.9	1.30e+03
Fe XVIII *	106.0028	$2s^2 2p^4 \ (^3P) 3d \ ^4D_{7/2} - 2s 2p^5 \ (^3P) 3d \ ^4P_{5/2}$	6.9	4.11e+02
Ni XXII	106.0450	$2s^2 2p^3 \ ^4S_{3/2} - 2s 2p^4 \ ^4P_{3/2}$	7.1	2.43e+04
Fe XIX	106.1055	$2s^2 2p^4 \ ^1S_0 - 2s 2p^5 \ ^1P_1$	7.0	3.15e+03
Ne VII	106.1900	$2s 2p \ ^3P_2 - 2s 3d \ ^3D_3$	5.8	3.32e+02
Fe XIX	106.3177	$2s^2 2p^4 \ ^3P_1 - 2s 2p^5 \ ^3P_0$	7.0	4.50e+03
Cr XVI	106.6170	$2s^2 2p^5 \ ^2P_{3/2} - 2s 2p^6 \ ^2S_{1/2}$	6.8	2.06e+03
Fe XXII	106.8397	$2s 2p^2 \ ^4P_{3/2} - 2p^3 \ ^2D_{3/2}$	7.1	4.81e+02
Fe XX	106.9617	$2s^2 2p^3 \ ^2P_{1/2} - 2s 2p^4 \ ^2S_{1/2}$	7.1	7.04e+03
Fe XVIII	107.2245	$2s^2 2p^4 \ (^3P) 3s \ ^4P_{3/2} - 2s 2p^5 \ (^3P) 3s \ ^2P_{3/2}$	6.9	3.83e+02
Fe XVIII *	107.2351	$2s^2 2p^4 \ (^3P) 3p \ ^4D_{7/2} - 2s 2p^5 \ (^3P) 3p \ ^4D_{7/2}$	6.9	1.27e+03
Fe XVIII *	107.2485	$2s^2 2p^4 \ (^3P) 3d \ ^4F_{5/2} - 2s 2p^5 \ (^3P) 3d \ ^4D_{7/2}$	6.9	3.39e+02
Fe XVIII *	107.3734	$2s^2 2p^4 \ (^3P) 3d \ ^4F_{5/2} - 2s 2p^5 \ (^3P) 3d \ ^2D_{5/2}$	6.9	2.17e+02
Fe XVIII *	107.3874	$2s^2 2p^4 \ (^3P) 3d \ ^4F_{5/2} - 2s 2p^5 \ (^3P) 3d \ ^4D_{5/2}$	6.9	3.69e+02
Fe XVIII *	107.3922	$2s^2 2p^4 \ (^3P) 3p \ ^4P_{3/2} - 2s 2p^5 \ (^3P) 3p \ ^4S_{3/2}$	6.9	3.57e+02
Fe XVIII *	107.4216	$2s^2 2p^4 \ (^3P) 3p \ ^2D_{5/2} - 2s 2p^5 \ (^3P) 3p \ ^4D_{7/2}$	6.9	1.60e+02
Fe XVIII *	107.6622	$2s^2 2p^4 \ (^3P) 3d \ ^4D_{5/2} - 2s 2p^5 \ (^3P) 3d \ ^4P_{3/2}$	6.9	2.23e+02
Fe XVIII *	107.8196	$2s^2 2p^4 \ (^3P) 3p \ ^4P_{5/2} - 2s 2p^5 \ (^3P) 3p \ ^4S_{3/2}$	6.9	2.26e+02
Fe VIII	107.8682	$3p^6 3d \ ^2D_{3/2} - 3p^6 5f \ ^2F_{5/2}$	5.7	2.19e+02
Mn XX	107.9030	$2s^2 2p^2 \ ^3P_2 - 2s 2p^3 \ ^3S_1$	7.1	1.60e+03
Co XXIII	108.0640	$2s^2 2p \ ^2P_{3/2} - 2s 2p^2 \ ^2P_{3/2}$	7.2	3.53e+02
Fe VIII	108.0772	$3p^6 3d \ ^2D_{5/2} - 3p^6 5f \ ^2F_{7/2}$	5.7	2.41e+02
Fe XIX *	108.0894	$2s^2 2p^3 \ (^2D) 3d \ ^3F_4 - 2s 2p^4 \ (^2D) 3d \ ^3F_4$	7.0	2.91e+02
Fe XXI	108.1177	$2s^2 2p^2 \ ^3P_0 - 2s 2p^3 \ ^3P_1$	7.1	4.56e+04
Mn XXI	108.1510	$2s^2 2p \ ^2P_{1/2} - 2s 2p^2 \ ^2P_{3/2}$	7.1	2.14e+02
Fe XIX	108.3555	$2s^2 2p^4 \ ^3P_2 - 2s 2p^5 \ ^3P_2$	7.0	4.65e+05
Fe XVIII *	108.5080	$2s^2 2p^4 \ (^3P) 3d \ ^4F_{7/2} - 2s 2p^5 \ (^3P) 3d \ ^4D_{7/2}$	6.9	7.76e+02
Fe XVIII *	108.6501	$2s^2 2p^4 \ (^3P) 3d \ ^4F_{7/2} - 2s 2p^5 \ (^3P) 3d \ ^4D_{5/2}$	6.9	7.35e+02
Mn XVIII	108.7531	$2s^2 2p^4 \ ^3P_2 - 2s 2p^5 \ ^3P_1$	6.9	8.94e+02
Fe XX	108.8028	$2s^2 2p^3 \ ^2P_{3/2} - 2s 2p^4 \ ^2P_{3/2}$	7.1	3.59e+03
Fe XVIII *	109.0211	$2s^2 2p^4 \ (^3P) 3d \ ^2D_{3/2} - 2s 2p^5 \ (^3P) 3d \ ^2D_{5/2}$	6.9	1.51e+02
Ni XXIII	109.0950	$2s^2 2p^2 \ ^3P_2 - 2s 2p^3 \ ^3P_1$	7.2	8.34e+02

Table 1: (continued)

Ion	λ (Å)	Transition	T_{\max}	Int
Fe XVIII *	109.2109	$2s^2 2p^4 ({}^3P) 3s 2P_{3/2} - 2s 2p^5 ({}^3P) 3s 4P_{5/2}$	6.9	1.79e+02
Ni XXI	109.3065	$2s^2 2p^4 3P_1 - 2s 2p^5 3P_2$	7.1	6.62e+03
Mn XVII	109.3650	$2s^2 2p^5 2P_{1/2} - 2s 2p^6 2S_{1/2}$	6.9	7.08e+02
Fe XXII	109.5000	$2s 2p^2 4P_{5/2} - 2p^3 2D_{5/2}$	7.1	2.98e+02
Fe XVIII *	109.6062	$2s^2 2p^4 ({}^3P) 3d 4F_{9/2} - 2s 2p^5 ({}^3P) 3d 4F_{9/2}$	6.9	1.15e+03
Fe XX	109.6458	$2s 2p^4 2D_{3/2} - 2p^5 2P_{3/2}$	7.1	2.33e+03
Fe XVIII *	109.6748	$2s^2 2p^4 ({}^3P) 3d 2F_{7/2} - 2s 2p^5 ({}^3P) 3d 4F_{7/2}$	6.9	4.95e+02
Cr XIX	109.6770	$2s^2 2p^2 3P_1 - 2s 2p^3 3S_1$	7.0	1.19e+03
Fe XIX *	109.7228	$2s^2 2p^3 ({}^2D) 3d 1G_4 - 2s 2p^4 ({}^2D) 3d 3F_4$	7.0	1.50e+02
Mn XXI	109.7940	$2s^2 2p 2P_{1/2} - 2s 2p^2 2P_{1/2}$	7.1	7.36e+03
Fe XIX	109.9519	$2s^2 2p^4 3P_0 - 2s 2p^5 3P_1$	7.0	7.36e+04
Co XXII	110.0960	$2s^2 2p^2 3P_1 - 2s 2p^3 3P_1$	7.1	3.87e+02
Fe XVIII *	110.1241	$2s^2 2p^4 ({}^3P) 3d 2F_{5/2} - 2s 2p^5 ({}^3P) 3d 2F_{7/2}$	6.9	2.27e+02
Fe XIX *	110.5222	$2s^2 2p^3 ({}^2D) 3d 3G_4 - 2s 2p^4 ({}^2D) 3d 3G_4$	7.0	2.84e+02
Fe XX	110.6269	$2s^2 2p^3 2D_{3/2} - 2s 2p^4 2D_{3/2}$	7.1	3.23e+04
Co XXI	110.7110	$2s^2 2p^3 4S_{3/2} - 2s 2p^4 4P_{1/2}$	7.1	6.31e+02
Fe XVIII *	110.9658	$2s^2 2p^4 ({}^3P) 3d 4P_{5/2} - 2s 2p^5 ({}^3P) 3d 4D_{7/2}$	6.9	1.62e+02
Fe XVIII *	111.0996	$2s^2 2p^4 ({}^3P) 3d 4P_{5/2} - 2s 2p^5 ({}^3P) 3d 2D_{5/2}$	6.9	2.05e+02
Mg VI	111.5526	$2s^2 2p^3 4S_{3/2} - 2s^2 2p^2 ({}^3P) 3s 4P_{5/2}$	5.7	1.50e+02
Fe XX	111.5790	$2s 2p^4 2D_{5/2} - 2p^5 2P_{3/2}$	7.1	5.63e+03
Fe XVIII	111.5807	$2s^2 2p^4 ({}^3P) 3s 4P_{1/2} - 2s 2p^5 ({}^3P) 3s 4P_{3/2}$	6.9	1.73e+02
Fe XIX	111.6947	$2s^2 2p^4 3P_1 - 2s 2p^5 3P_1$	7.0	5.66e+04
Ni XXIII	111.8290	$2s^2 2p^2 3P_0 - 2s 2p^3 3D_1$	7.2	5.72e+04
Fe XVIII *	112.0558	$2s^2 2p^4 ({}^3P) 3d 2F_{5/2} - 2s 2p^5 ({}^3P) 3d 4F_{5/2}$	6.9	2.26e+02
Fe XXII	112.2034	$2s 2p^2 2D_{3/2} - 2p^3 2P_{3/2}$	7.1	2.15e+02
Fe XXI	112.4662	$2s^2 2p^2 1S_0 - 2s 2p^3 1P_1$	7.1	1.79e+03
Si XIII	112.4722	$1s 3p 1P_1 - 1s 4s 1S_0$	7.1	1.52e+02
Fe XVIII *	112.7910	$2s^2 2p^4 ({}^3P) 3d 4F_{5/2} - 2s 2p^5 ({}^3P) 3d 2F_{7/2}$	6.9	1.92e+02
Fe XXI	113.2913	$2s^2 2p^2 1D_2 - 2s 2p^3 1D_2$	7.1	8.87e+03
Fe XX	113.3490	$2s^2 2p^3 2D_{5/2} - 2s 2p^4 2D_{5/2}$	7.1	2.26e+04
Co XXI	113.6870	$2s^2 2p^3 4S_{3/2} - 2s 2p^4 4P_{3/2}$	7.1	1.21e+03
Fe XVIII *	114.0037	$2s^2 2p^4 ({}^3P) 3d 2D_{5/2} - 2s 2p^5 ({}^3P) 3d 4D_{7/2}$	6.9	2.33e+02
Cr XIX	114.0100	$2s^2 2p^2 3P_2 - 2s 2p^3 3S_1$	7.0	2.48e+03
Fe XVIII *	114.1849	$2s^2 2p^4 ({}^3P) 3d 4F_{7/2} - 2s 2p^5 ({}^3P) 3d 2F_{7/2}$	6.9	3.94e+02
Fe XXII	114.4101	$2s^2 2p 2P_{3/2} - 2s 2p^2 2P_{3/2}$	7.1	1.51e+05
Co XX	114.4150	$2s^2 2p^4 3P_1 - 2s 2p^5 3P_2$	7.1	3.41e+02
Fe XX	114.6957	$2s^2 2p^3 2P_{3/2} - 2s 2p^4 2S_{1/2}$	7.1	4.05e+02
Fe XVIII *	114.8183	$2s^2 2p^4 ({}^3P) 3d 4F_{5/2} - 2s 2p^5 ({}^3P) 3d 4F_{5/2}$	6.9	3.36e+02
Fe XXI	114.9792	$2s 2p^3 3D_1 - 2p^4 3P_2$	7.1	1.56e+02
Fe XXI	115.0695	$2s 2p^3 3D_2 - 2p^4 3P_2$	7.1	6.19e+02
Fe XXI	115.1396	$2s^2 2p^2 3P_1 - 2s 2p^3 3P_2$	7.1	3.96e+02
Fe XXII	115.1472	$2s 2p^2 2D_{5/2} - 2p^3 2P_{3/2}$	7.1	6.02e+02
Cr XVI	115.3340	$2s^2 2p^5 2P_{1/2} - 2s 2p^6 2S_{1/2}$	6.8	7.38e+02
Fe XX	115.3426	$2s 2p^4 2S_{1/2} - 2p^5 2P_{1/2}$	7.1	1.40e+02
Mn XVIII	115.3653	$2s^2 2p^4 3P_2 - 2s 2p^5 3P_2$	6.9	2.77e+03
Fe XIX	115.3964	$2s 2p^5 1P_1 - 2p^6 1S_0$	7.0	3.52e+03
O VI	115.8217	$1s^2 2s 2S_{1/2} - 1s^2 4p 2P_{3/2}$	5.5	2.59e+02
Cr XX	116.0780	$2s^2 2p 2P_{1/2} - 2s 2p^2 2P_{3/2}$	7.1	3.79e+02
Fe XXII	116.2678	$2s^2 2p 2P_{3/2} - 2s 2p^2 2S_{1/2}$	7.1	3.76e+04

Table 1: (continued)

Ion	λ (Å)	Transition	T_{\max}	Int
Cr XVII	116.5987	$2s^2 2p^4 {}^3P_2 - 2s 2p^5 {}^3P_1$	6.9	1.16e+03
Ne VII	116.6930	$2s 2p {}^1P_1 - 2s 3d {}^1D_2$	5.8	5.87e+02
Mn XX	116.7050	$2s^2 2p^2 {}^3P_0 - 2s 2p^3 {}^3P_1$	7.1	3.81e+02
Fe XVIII *	116.9099	$2s^2 2p^4 ({}^3P) 3d {}^4P_{5/2} - 2s 2p^5 ({}^3P) 3d {}^2F_{7/2}$	6.9	2.67e+02
Fe XXII	117.1543	$2s^2 2p^2 {}^2P_{1/2} - 2s 2p^2 {}^2P_{1/2}$	7.1	7.97e+05
Mn XVIII	117.2320	$2s^2 2p^4 {}^3P_0 - 2s 2p^5 {}^3P_1$	6.9	4.45e+02
Fe XXII	117.4898	$2s 2p^2 {}^4P_{1/2} - 2p^3 {}^4S_{3/2}$	7.1	5.44e+02
Fe XXI	117.4938	$2s^2 2p^2 {}^1D_2 - 2s 2p^3 {}^3S_1$	7.1	8.64e+02
Fe XXI	117.4996	$2s^2 2p^2 {}^3P_1 - 2s 2p^3 {}^3P_1$	7.1	1.55e+05
Fe XVIII *	117.8528	$2s^2 2p^4 ({}^3P) 3s {}^4P_{3/2} - 2s 2p^5 ({}^3P) 3s {}^4P_{5/2}$	6.9	2.77e+02
Si V	117.8540	$2p^6 {}^1S_0 - 2p^5 3s {}^1P_1$	5.5	7.17e+02
Ni XXII	117.9180	$2s^2 2p^3 {}^4S_{3/2} - 2s 2p^4 {}^4P_{5/2}$	7.1	2.81e+04
Ni XXV	117.9395	$2s^2 {}^1S_0 - 2s 2p {}^1P_1$	7.2	1.09e+05
Fe XIX *	117.9434	$2s^2 2p^3 ({}^4S) 3d {}^5D_4 - 2s 2p^4 ({}^4P) 3d {}^3F_4$	7.0	1.11e+03
Cr XX	117.9580	$2s^2 2p^2 {}^2P_{1/2} - 2s 2p^2 {}^2P_{1/2}$	7.1	1.14e+04
Fe XVIII *	117.9744	$2s^2 2p^4 ({}^3P) 3p {}^4D_{5/2} - 2s 2p^5 ({}^3P) 3p {}^4D_{7/2}$	6.9	2.36e+02
Mn XVIII	118.2432	$2s^2 2p^4 {}^3P_1 - 2s 2p^5 {}^3P_1$	6.9	3.47e+02
Ni XXIV	118.4739	$2s^2 2p^2 {}^2P_{1/2} - 2s 2p^2 {}^2D_{3/2}$	7.2	3.77e+04
Fe XXI	118.6444	$2s 2p^3 {}^3D_3 - 2p^4 {}^3P_2$	7.1	1.28e+03
Fe XX	118.6801	$2s^2 2p^3 {}^4S_{3/2} - 2s 2p^4 {}^4P_{1/2}$	7.1	2.07e+05
Fe XXI	118.6972	$2s^2 2p^2 {}^3P_1 - 2s 2p^3 {}^3P_0$	7.1	2.97e+03
Si V	118.9640	$2p^6 {}^1S_0 - 2p^5 3s {}^3P_1$	5.5	3.88e+02
Fe XVIII *	119.1227	$2s^2 2p^4 ({}^3P) 3d {}^4F_{7/2} - 2s 2p^5 ({}^3P) 3d {}^4F_{7/2}$	6.9	1.63e+02
Fe XVIII *	119.3031	$2s^2 2p^4 ({}^3P) 4p {}^4D_{1/2} - 2s^2 2p^4 ({}^3P) 5s {}^4P_{1/2}$	6.9	3.20e+02
Si XII	119.6632	$1s^2 3s {}^2S_{1/2} - 1s^2 4p {}^2P_{3/2}$	7.0	4.51e+02
Si XII	119.8210	$1s^2 3s {}^2S_{1/2} - 1s^2 4p {}^2P_{1/2}$	7.0	2.33e+02
Co XXII	119.9400	$2s^2 2p^2 {}^3P_0 - 2s 2p^3 {}^3D_1$	7.1	2.74e+03
Fe XIX	119.9836	$2s^2 2p^4 {}^3P_1 - 2s 2p^5 {}^3P_2$	7.0	1.12e+05
Fe XXII	120.0128	$2s 2p^2 {}^2D_{3/2} - 2p^3 {}^2P_{1/2}$	7.1	2.46e+03
O VII	120.3328	$1s 2s {}^3S_1 - 1s 3p {}^3P_1$	6.4	1.99e+02
O VII	120.3328	$1s 2s {}^3S_1 - 1s 3p {}^3P_2$	6.4	4.71e+02
Ni XXI	120.3516	$2s^2 2p^4 {}^1D_2 - 2s 2p^5 {}^3P_2$	7.1	1.61e+03
Ni XXV	120.3567	$2s 2p {}^3P_2 - 2p^2 {}^1D_2$	7.2	1.89e+02
Fe XVIII *	120.5431	$2s^2 2p^4 ({}^3P) 3d {}^4F_{7/2} - 2s 2p^5 ({}^3P) 3d {}^4F_{9/2}$	6.9	1.54e+02
Fe XVIII *	120.5856	$2s^2 2p^4 ({}^3P) 4p {}^4D_{3/2} - 2s^2 2p^4 ({}^3P) 5s {}^4P_{1/2}$	6.9	5.48e+02
Fe XIX *	120.9602	$2s^2 2p^3 ({}^4S) 3s {}^5S_2 - 2s 2p^4 ({}^4P) 3s {}^5P_2$	7.0	1.81e+02
Mn XXI	121.1790	$2s^2 2p^2 {}^2P_{3/2} - 2s 2p^2 {}^2P_{3/2}$	7.1	1.29e+03
Fe XXIII	121.2013	$2s 2p {}^3P_1 - 2p^2 {}^1D_2$	7.2	7.34e+02
Fe XXI	121.2129	$2s^2 2p^2 {}^3P_2 - 2s 2p^3 {}^3P_2$	7.1	1.81e+04
Fe XX	121.8448	$2s^2 2p^3 {}^4S_{3/2} - 2s 2p^4 {}^4P_{3/2}$	7.1	3.96e+05
Fe XX	121.9868	$2s 2p^4 {}^2P_{3/2} - 2p^5 {}^2P_{1/2}$	7.1	1.72e+03
Ne VI	122.4880	$2s^2 2p^2 {}^2P_{1/2} - 2s^2 3d {}^2D_{3/2}$	5.7	7.77e+02
Ne VI	122.6850	$2s^2 2p^2 {}^2P_{3/2} - 2s^2 3d {}^2D_{3/2}$	5.7	1.55e+02
Ne VI	122.6850	$2s^2 2p^2 {}^2P_{3/2} - 2s^2 3d {}^2D_{5/2}$	5.7	1.43e+03
Cr XVII	122.9718	$2s^2 2p^4 {}^3P_2 - 2s 2p^5 {}^3P_2$	6.9	3.37e+03
Fe XXI	123.3360	$2s 2p^3 {}^3P_1 - 2p^4 {}^3P_0$	7.1	4.07e+02
Ni XXII	123.3850	$2s^2 2p^3 {}^2D_{3/2} - 2s 2p^4 {}^4P_{1/2}$	7.1	2.81e+02
Fe XXI	123.8312	$2s^2 2p^2 {}^3P_2 - 2s 2p^3 {}^3P_1$	7.1	2.63e+04
Fe XIX *	124.3683	$2s^2 2p^3 ({}^4S) 3d {}^5D_3 - 2s 2p^4 ({}^4P) 3d {}^5F_4$	7.0	4.96e+02

Table 1: (continued)

Ion	λ (Å)	Transition	T_{\max}	Int
Fe XIX *	124.8848	$2s^2 2p^3 ({}^4S) 3d {}^5D_4 - 2s 2p^4 ({}^4P) 3d {}^5F_4$	7.0	9.53e+02
Cr XVII	125.0637	$2s^2 2p^4 {}^3P_0 - 2s 2p^5 {}^3P_1$	6.9	6.10e+02
Co XXIV	125.1500	$2s^2 {}^1S_0 - 2s 2p {}^1P_1$	7.2	5.62e+03
Co XXI	125.1610	$2s^2 2p^3 {}^4S_{3/2} - 2s 2p^4 {}^4P_{5/2}$	7.1	1.49e+03
Fe XXI	125.2995	$2s 2p^3 {}^3P_2 - 2p^4 {}^3P_1$	7.1	1.68e+02
Cr XVII	125.4284	$2s^2 2p^4 {}^3P_1 - 2s 2p^5 {}^3P_1$	6.9	4.82e+02
Mn XX	125.4490	$2s^2 2p^2 {}^3P_1 - 2s 2p^3 {}^3P_1$	7.1	1.16e+03
Fe XXII	125.7080	$2s 2p^2 {}^4P_{3/2} - 2p^3 {}^4S_{3/2}$	7.1	7.47e+02
Cr XIX	125.9780	$2s^2 2p^2 {}^3P_0 - 2s 2p^3 {}^3P_1$	7.0	6.75e+02
Mn XVIII	126.1016	$2s^2 2p^4 {}^3P_1 - 2s 2p^5 {}^3P_2$	6.9	6.99e+02
Ni XXIV	126.2987	$2s^2 2p {}^2P_{3/2} - 2s 2p^2 {}^2S_{1/2}$	7.2	6.14e+02
Si XII	126.4609	$1s^2 3p {}^2P_{1/2} - 1s^2 4d {}^2D_{3/2}$	7.0	2.66e+02
Ni XXIII	126.5920	$2s^2 2p^2 {}^3P_1 - 2s 2p^3 {}^3D_2$	7.2	3.19e+02
Co XXIII	126.7840	$2s^2 2p {}^2P_{1/2} - 2s 2p^2 {}^2D_{3/2}$	7.2	1.85e+03
Si XII	126.7960	$1s^2 3p {}^2P_{3/2} - 1s^2 4d {}^2D_{5/2}$	7.0	4.80e+02
Fe XXI	127.0402	$2s 2p^3 {}^1P_1 - 2p^4 {}^1S_0$	7.1	1.94e+02
Mn XIX	127.2810	$2s^2 2p^3 {}^4S_{3/2} - 2s 2p^4 {}^4P_{1/2}$	7.0	1.50e+03
Ni XXII	127.3070	$2s^2 2p^3 {}^2D_{3/2} - 2s 2p^4 {}^4P_{3/2}$	7.1	2.28e+02
Ni XXIII	127.4790	$2s^2 2p^2 {}^3P_1 - 2s 2p^3 {}^3D_1$	7.2	1.51e+03
Ne VII	127.6660	$2s 2p {}^1P_1 - 2s 3s {}^1S_0$	5.8	4.60e+02
Ti XVII	127.7780	$2s^2 2p^2 {}^3P_2 - 2s 2p^3 {}^3S_1$	6.8	2.46e+02
Fe XX	127.8358	$2s^2 2p^3 {}^2P_{1/2} - 2s 2p^4 {}^2D_{3/2}$	7.1	1.91e+03
Fe XIX *	127.8367	$2s^2 2p^3 ({}^4S) 3p {}^5P_3 - 2s 2p^4 ({}^4P) 3p {}^5D_4$	7.0	1.18e+03
Fe XIX	128.4062	$2s^2 2p^3 ({}^4S) 3d {}^3D_3 - 2s 2p^4 ({}^4P) 3d {}^3F_4$	7.0	1.20e+03
Cr XX	128.4420	$2s^2 2p {}^2P_{3/2} - 2s 2p^2 {}^2P_{3/2}$	7.1	2.21e+03
Fe XIX *	128.6563	$2s^2 2p^3 ({}^4S) 3s {}^5S_2 - 2s 2p^4 ({}^4P) 3s {}^5P_3$	7.0	6.37e+02
Fe XXI	128.7526	$2s^2 2p^2 {}^3P_0 - 2s 2p^3 {}^3D_1$	7.1	8.94e+05
Ni XXV	128.7973	$2s 2p {}^3P_0 - 2p^2 {}^3P_1$	7.2	2.92e+02
Fe XXII	129.1843	$2s 2p^2 {}^2P_{1/2} - 2p^3 {}^2P_{3/2}$	7.1	1.41e+02
O VI	129.7852	$1s^2 2p {}^2P_{1/2} - 1s^2 4d {}^2D_{3/2}$	5.5	1.42e+02
O VI	129.8714	$1s^2 2p {}^2P_{3/2} - 1s^2 4d {}^2D_{5/2}$	5.5	2.56e+02
Si XII	129.8906	$1s^2 3d {}^2D_{3/2} - 1s^2 4f {}^2F_{5/2}$	7.0	4.82e+02
Si XII	129.9801	$1s^2 3d {}^2D_{5/2} - 1s^2 4f {}^2F_{7/2}$	7.0	6.86e+02
Fe XIX *	130.0111	$2s^2 2p^3 ({}^4S) 3p {}^5P_2 - 2s 2p^4 ({}^4P) 3p {}^5P_3$	7.0	2.23e+02
Fe XIX *	130.0791	$2s^2 2p^3 ({}^4S) 3d {}^5D_4 - 2s 2p^4 ({}^4P) 3d {}^5F_5$	7.0	8.35e+02
Mn XIX	130.5780	$2s^2 2p^3 {}^4S_{3/2} - 2s 2p^4 {}^4P_{3/2}$	7.0	2.86e+03
Ni XXV	130.9278	$2s 2p {}^1P_1 - 2p^2 {}^1S_0$	7.2	2.65e+02
Fe VIII	130.9412	$3p^6 3d {}^2D_{3/2} - 3p^6 4f {}^2F_{5/2}$	5.7	9.96e+02
Fe VIII	131.2402	$3p^6 3d {}^2D_{5/2} - 3p^6 4f {}^2F_{7/2}$	5.7	1.60e+03
Si XII	131.5515	$1s^2 3p {}^2P_{1/2} - 1s^2 4s {}^2S_{1/2}$	7.0	2.35e+02
Fe XX	131.6887	$2s 2p^4 {}^2S_{1/2} - 2p^5 {}^2P_{3/2}$	7.1	1.03e+03
Mn XX	131.9160	$2s^2 2p^2 {}^3P_2 - 2s 2p^3 {}^3P_1$	7.1	2.71e+02
Si XII	131.9664	$1s^2 3p {}^2P_{3/2} - 1s^2 4s {}^2S_{1/2}$	7.0	4.77e+02
Fe XVIII *	132.5272	$2s^2 2p^4 ({}^3P) 4d {}^2F_{5/2} - 2s^2 2p^4 ({}^3P) 5p {}^2P_{3/2}$	6.9	2.04e+02
Fe XIX	132.6196	$2s^2 2p^4 {}^1D_2 - 2s 2p^5 {}^3P_2$	7.0	2.08e+04
Fe XIX *	132.6452	$2s^2 2p^3 ({}^4S) 3d {}^5D_1 - 2s 2p^4 ({}^4P) 3d {}^5D_2$	7.0	1.83e+02
Cr XVII	132.8339	$2s^2 2p^4 {}^3P_1 - 2s 2p^5 {}^3P_2$	6.9	8.79e+02
Fe XX	132.8405	$2s^2 2p^3 {}^4S_{3/2} - 2s 2p^4 {}^4P_{5/2}$	7.1	5.05e+05
Fe XXIII	132.9065	$2s^2 {}^1S_0 - 2s 2p {}^1P_1$	7.2	2.20e+06

Table 1: (continued)

Ion	λ (Å)	Transition	T_{\max}	Int
N VII	133.7406	$2s^2 2S_{1/2} - 3p^2 2P_{3/2}$	7.1	2.21e+02
Fe XIX *	133.7547	$2s^2 2p^3 (4S) 3d^5 5D_3 - 2s 2p^4 (4P) 3d^5 5D_3$	7.0	2.30e+02
Fe XIX *	133.8400	$2s^2 2p^3 (4S) 3d^5 5D_2 - 2s 2p^4 (4P) 3d^5 5D_3$	7.0	2.70e+02
Fe XIX *	133.8513	$2s^2 2p^3 (4S) 3d^5 5D_3 - 2s 2p^4 (4P) 3d^5 5D_4$	7.0	2.99e+02
N VII	133.8745	$2p^2 2P_{3/2} - 3d^2 2D_{5/2}$	7.1	1.45e+02
N VII	133.9344	$2p^2 2P_{3/2} - 3s^2 2S_{1/2}$	7.1	2.49e+02
Cr XIX	134.0520	$2s^2 2p^2 3P_1 - 2s 2p^3 3P_1$	7.0	1.80e+03
Fe XIX *	134.4498	$2s^2 2p^3 (4S) 3d^5 5D_4 - 2s 2p^4 (4P) 3d^5 5D_4$	7.0	3.75e+02
Fe XXII	134.6925	$2s 2p^2 4P_{5/2} - 2p^3 4S_{3/2}$	7.1	8.96e+02
C VI	134.9125	$2s^2 2S_{1/2} - 4p^2 2P_{3/2}$	7.1	1.77e+02
Ni XXV	135.7870	$2s 2p^3 3P_1 - 2p^2 3P_1$	7.2	1.70e+02
Fe XXII	135.7912	$2s^2 2p^2 2P_{1/2} - 2s 2p^2 2D_{3/2}$	7.1	6.80e+05
Fe XXII	135.9966	$2s^2 2p^2 2P_{3/2} - 2s 2p^2 2P_{1/2}$	7.1	1.21e+03
Fe XX	136.0521	$2s^2 2p^3 2P_{3/2} - 2s 2p^4 2D_{5/2}$	7.1	3.51e+03
Ne VI	136.3480	$2s 2p^2 4P_{5/2} - 2s 2p (3P) 3s 4P_{5/2}$	5.7	1.79e+02
Fe XXIII	136.5317	$2s 2p^3 3P_2 - 2p^2 1D_2$	7.2	6.60e+03
Ni XXIII	136.5570	$2s^2 2p^2 3P_2 - 2s 2p^3 3D_1$	7.2	5.00e+02
Cr XVIII	136.5950	$2s^2 2p^3 4S_{3/2} - 2s 2p^4 4P_{1/2}$	6.9	2.06e+03
Ca XV	137.1954	$2s^2 2p^2 3P_0 - 2s 2p^3 3S_1$	6.7	4.80e+02
Mg V	137.4110	$2s^2 2p^4 3P_2 - 2s^2 2p^3 (2D) 3s 3D_3$	5.6	1.85e+02
Fe XIX *	137.4878	$2s^2 2p^3 (4S) 3d^3 3D_3 - 2s 2p^4 (4P) 3d^5 5F_4$	7.0	1.55e+02
O VII	137.5104	$1s 2p^1 1P_1 - 1s 3s^1 1S_0$	6.8	3.08e+02
Fe XXI	138.1342	$2s^2 2p^2 1S_0 - 2s 2p^3 3S_1$	7.1	1.45e+03
Mn XX	138.2780	$2s^2 2p^2 3P_0 - 2s 2p^3 3D_1$	7.1	6.58e+03
Ne VI	138.3870	$2s^2 2p^2 2P_{1/2} - 2s^2 3s^2 2S_{1/2}$	5.7	1.93e+02
Fe XX	138.4789	$2s 2p^4 2P_{1/2} - 2p^5 2P_{1/2}$	7.1	1.32e+03
Fe XXI	138.6025	$2s 2p^3 3P_1 - 2p^4 3P_2$	7.1	1.41e+02
Ne VI	138.6380	$2s^2 2p^2 2P_{3/2} - 2s^2 3s^2 2S_{1/2}$	5.7	3.89e+02
Ni XXIV	138.7288	$2s^2 2p^2 2P_{3/2} - 2s 2p^2 2D_{5/2}$	7.2	5.21e+02
Fe XX	139.0411	$2s^2 2p^3 2P_{3/2} - 2s 2p^4 2D_{3/2}$	7.1	3.43e+02
Ni XXI	139.0726	$2s^2 2p^4 1S_0 - 2s 2p^5 3P_1$	7.1	1.53e+02
Ni XI *	139.3870	$3s^2 3p^5 3d^3 3F_4 - 3s^2 3p^4 (3P) 3d^2 3F_4$	6.2	1.69e+02
Fe XXII	139.6465	$2s 2p^2 2P_{1/2} - 2p^3 2P_{1/2}$	7.1	2.00e+02
Cr XVIII	139.9680	$2s^2 2p^3 4S_{3/2} - 2s 2p^4 4P_{3/2}$	6.9	3.94e+03
Ti XV	140.3969	$2s^2 2p^4 3P_2 - 2s 2p^5 3P_2$	6.8	2.45e+02
Fe XX	140.4209	$2s 2p^4 2P_{3/2} - 2p^5 2P_{3/2}$	7.1	3.13e+03
Cr XIX	140.5810	$2s^2 2p^2 3P_2 - 2s 2p^3 3P_1$	7.0	5.21e+02
Ca XV	140.5812	$2s^2 2p^2 3P_1 - 2s 2p^3 3S_1$	6.7	1.36e+03
Mn XIX	141.0310	$2s^2 2p^3 4S_{3/2} - 2s 2p^4 4P_{5/2}$	7.0	3.87e+03
Ca XII	141.0412	$2s^2 2p^5 2P_{3/2} - 2s 2p^6 2S_{1/2}$	6.5	8.18e+02
Mn XXII	141.0900	$2s^2 1S_0 - 2s 2p^1 1P_1$	7.1	1.91e+04
Mn XXI	141.5760	$2s^2 2p^2 2P_{3/2} - 2s 2p^2 2S_{1/2}$	7.1	3.41e+02
Fe XX	142.0429	$2s^2 2p^3 2D_{3/2} - 2s 2p^4 4P_{1/2}$	7.1	2.40e+03
Fe XXI	142.1436	$2s^2 2p^2 3P_1 - 2s 2p^3 3D_2$	7.1	2.31e+04
Fe XXI	142.2815	$2s^2 2p^2 3P_1 - 2s 2p^3 3D_1$	7.1	5.57e+04
Zn XXVIII	142.4662	$1s^2 2s^2 2S_{1/2} - 1s^2 2p^2 2P_{3/2}$	7.4	1.23e+03
Ne V	142.7240	$2s^2 2p^2 3P_2 - 2s^2 2p 3d^3 3P_2$	5.5	3.11e+02
Mg V	142.9350	$2s^2 2p^4 1D_2 - 2s^2 2p^3 (2D) 3s^1 1D_2$	5.6	2.51e+02
Ne V	143.2190	$2s^2 2p^2 3P_0 - 2s^2 2p 3d^3 3D_1$	5.5	1.75e+02

Table 1: (continued)

Ion	λ (Å)	Transition	T_{\max}	Int
Ne V	143.2730	$2s^2 2p^2 {}^3P_1 - 2s^2 2p 3d {}^3D_2$	5.5	3.94e+02
Ne V	143.3440	$2s^2 2p^2 {}^3P_2 - 2s^2 2p 3d {}^3D_3$	5.5	6.58e+02
Fe XX *	143.6551	$2s^2 2p^2 ({}^3P) 3d {}^4F_{9/2} - 2s 2p^3 ({}^3D) 3d {}^4G_{11/2}$	7.1	2.86e+02
Ca XV	144.3062	$2s^2 2p^2 {}^3P_2 - 2s 2p^3 {}^3S_1$	6.7	2.51e+03
Fe XXIII	144.3890	$2s 2p {}^3P_1 - 2p^2 {}^3P_2$	7.2	4.55e+03
Ti XVIII	144.7550	$2s^2 2p {}^2P_{3/2} - 2s 2p^2 {}^2P_{3/2}$	6.9	2.75e+02
Ni XXII	144.8100	$2s^2 2p^3 {}^2D_{3/2} - 2s 2p^4 {}^4P_{5/2}$	7.1	1.96e+03
Fe XXII	144.9125	$2s 2p^2 {}^2D_{3/2} - 2p^3 {}^2D_{5/2}$	7.1	4.07e+02
Fe XXI	144.9717	$2s 2p^3 {}^1D_2 - 2p^4 {}^1D_2$	7.1	3.66e+02
Mn XXI	145.4590	$2s^2 2p {}^2P_{1/2} - 2s 2p^2 {}^2D_{3/2}$	7.1	5.33e+03
Ni XI *	145.6597	$3s^2 3p^5 3d {}^3F_4 - 3s^2 3p^4 ({}^1D) 3d^2 {}^3D_3$	6.2	1.74e+02
Fe XXI	145.7335	$2s^2 2p^2 {}^3P_2 - 2s 2p^3 {}^3D_3$	7.1	1.00e+04
Fe XX	146.6001	$2s^2 2p^3 {}^2D_{3/2} - 2s 2p^4 {}^4P_{3/2}$	7.1	1.54e+03
Fe XXI	146.9831	$2s^2 2p^2 {}^1D_2 - 2s 2p^3 {}^3P_1$	7.1	2.08e+03
Ne V	147.1320	$2s^2 2p^2 {}^1D_2 - 2s^2 2p 3d {}^1F_3$	5.5	5.65e+02
Fe XXIII	147.2540	$2s 2p {}^3P_0 - 2p^2 {}^3P_1$	7.2	7.54e+03
Ca XII	147.2822	$2s^2 2p^5 {}^2P_{1/2} - 2s 2p^6 {}^2S_{1/2}$	6.5	3.42e+02
Ne VI	147.5930	$2s 2p^2 {}^2D_{5/2} - 2s 2p ({}^3P) 3s {}^2P_{3/2}$	5.7	2.92e+02
Ti XVIII	147.5960	$2s^2 2p {}^2P_{3/2} - 2s 2p^2 {}^2P_{1/2}$	6.9	1.46e+02
Cr XX	147.6800	$2s^2 2p {}^2P_{3/2} - 2s 2p^2 {}^2S_{1/2}$	7.1	7.25e+02
Ne VI	147.7660	$2s 2p^2 {}^2D_{3/2} - 2s 2p ({}^3P) 3s {}^2P_{1/2}$	5.7	1.59e+02
Ni XI	148.3742	$3s^2 3p^6 {}^1S_0 - 3s^2 3p^5 3d {}^1P_1$	6.2	3.73e+03
Ti XVIII	148.4550	$2s^2 2p {}^2P_{1/2} - 2s 2p^2 {}^2S_{1/2}$	6.9	1.03e+03
Cr XIX	148.6620	$2s^2 2p^2 {}^3P_0 - 2s 2p^3 {}^3D_1$	7.0	9.11e+03
Fe XXIII	149.2117	$2s 2p {}^1P_1 - 2p^2 {}^1S_0$	7.2	7.72e+03
Cr XVIII	149.8280	$2s^2 2p^3 {}^4S_{3/2} - 2s 2p^4 {}^4P_{5/2}$	6.9	5.52e+03
Fe XXII	149.8606	$2s 2p^2 {}^2D_{5/2} - 2p^3 {}^2D_{5/2}$	7.1	1.45e+03
Cr XXI	149.9010	$2s^2 {}^1S_0 - 2s 2p {}^1P_1$	7.1	3.34e+04