

Predicted XUV Line Intensities  
CHIANTI database - Version 5.0

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

Number of lines: 755

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: Thu Aug 18 16:53:12 2005

Ionization Fractions file: arnaud\_raymond\_ext.ioneq

ionization equilibrium: Arnaud, M., Rothenflug, R., 1985, AASS, 60, 425

Fe ionization equilibrium: Arnaud, M., Raymond, J.C., 1992, ApJ, 398, 39

Minor elements ionization equilibrium: Landini, M., Monsignori Fossi, B.C.,  
1991, AASS, 91, 183

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

Enrico Landi Jan 2003

Elemental Abundance file: cosmic.abund

elemental abundances: Allen, C.W., 1973, Astrophysical Quantities

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

Enrico Landi Jun 2002

Minimum abundance =  $1.58489e-08$

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	$\lambda$ (Å)	Transition	$T_{\max}$	Int
Ar XVI *	50.0105	$1s^2 3d^2 D_{5/2} - 1s^2 5f^2 F_{7/2}$	7.1	3.37e+02
Fe XV	50.1210	$3s 3d^3 D_3 - 3s 5f^3 F_4$	6.4	1.57e+02
Fe XVII *	50.1398	$2s^2 2p^5 3p^3 D_2 - 2s^2 2p^5 4d^1 D_2$	6.9	5.14e+02
Fe XVII	50.1535	$2s^2 2p^5 3p^3 D_2 - 2s^2 2p^5 4d^3 P_1$	6.9	2.56e+02
Fe XVII	50.1960	$2s^2 2p^5 3p^3 D_3 - 2s^2 2p^5 4d^1 F_3$	6.9	3.88e+02
Fe XVII *	50.2211	$2s^2 2p^5 3p^3 D_1 - 2s^2 2p^5 4d^3 F_2$	6.9	1.34e+03
Fe XVII *	50.2496	$2s 2p^6 3p^3 P_1 - 2s 2p^6 4d^1 D_2$	6.9	3.53e+02
Ni XVIII	50.2550	$3p^2 P_{1/2} - 4s^2 S_{1/2}$	6.7	2.30e+02
Fe XVII	50.2621	$2s^2 2p^5 3p^3 D_3 - 2s^2 2p^5 4d^3 F_4$	6.9	3.06e+03
Fe XVII *	50.3002	$2s^2 2p^5 3p^3 P_1 - 2s^2 2p^5 4d^1 P_1$	6.9	4.37e+02
Fe XVII *	50.3026	$2s^2 2p^5 3p^3 D_2 - 2s^2 2p^5 4d^3 P_2$	6.9	2.04e+02
Ne IX	50.3318	$1s 2s^3 S_1 - 1s 5p^3 P_2$	6.8	1.40e+02
Fe XVI	50.3610	$3s^2 S_{1/2} - 4p^2 P_{3/2}$	6.8	9.72e+03
Fe XVII *	50.4024	$2s^2 2p^5 3p^3 D_3 - 2s^2 2p^5 4d^3 D_3$	6.9	3.48e+02
Mg XI	50.4376	$1s 2s^3 S_1 - 1s 3p^3 P_2$	6.9	1.57e+03
Mg XI	50.4645	$1s 2s^3 S_1 - 1s 3p^3 P_1$	6.9	6.48e+02
Mg XI	50.4713	$1s 2s^3 S_1 - 1s 3p^3 P_0$	6.9	2.11e+02
Si X	50.5240	$2s^2 2p^2 P_{1/2} - 2s^2 3d^2 D_{3/2}$	6.2	7.54e+02
Fe XVII *	50.5542	$2s 2p^6 3p^3 P_0 - 2s 2p^6 4d^3 D_1$	6.9	2.67e+02
Fe XVI	50.5650	$3s^2 S_{1/2} - 4p^2 P_{1/2}$	6.8	5.32e+03
Fe XVII *	50.6320	$2s^2 2p^5 3p^3 D_3 - 2s^2 2p^5 4d^3 P_2$	6.9	1.46e+02
Fe XVII *	50.6382	$2s 2p^6 3p^3 P_1 - 2s 2p^6 4d^3 D_2$	6.9	5.67e+02
Fe XVII *	50.6486	$2s 2p^6 3p^3 P_1 - 2s 2p^6 4d^3 D_1$	6.9	1.80e+02
Si X	50.6910	$2s^2 2p^2 P_{3/2} - 2s^2 3d^2 D_{5/2}$	6.2	1.14e+03
Si X	50.7030	$2s^2 2p^2 P_{3/2} - 2s^2 3d^2 D_{3/2}$	6.2	1.50e+02
Fe XVII *	50.7169	$2s^2 2p^5 3p^1 P_1 - 2s^2 2p^5 4d^1 D_2$	6.9	9.74e+02
Fe XVII *	50.7742	$2s^2 2p^5 3p^3 P_1 - 2s^2 2p^5 4d^3 D_2$	6.9	2.03e+03
Fe XVII *	50.7927	$2s^2 2p^5 3p^1 D_2 - 2s^2 2p^5 4d^3 F_3$	6.9	2.18e+03
Fe XVII *	50.8574	$2s^2 2p^5 3p^1 D_2 - 2s^2 2p^5 4d^3 D_2$	6.9	2.40e+02
Fe XVII *	50.8835	$2s^2 2p^5 3p^1 P_1 - 2s^2 2p^5 4d^3 P_2$	6.9	2.97e+02
Fe XVII *	50.9444	$2s^2 2p^5 3p^1 D_2 - 2s^2 2p^5 4d^3 F_2$	6.9	2.32e+02
Fe XVII *	51.0314	$2s^2 2p^5 3p^3 P_2 - 2s^2 2p^5 4d^3 D_3$	6.9	1.59e+03
Ni XVIII	51.0380	$3p^2 P_{3/2} - 4s^2 S_{1/2}$	6.7	4.74e+02
Fe XVII	51.0828	$2s^2 2p^5 3p^3 P_2 - 2s^2 2p^5 4d^3 P_1$	6.9	3.67e+02
Fe XVII *	51.0930	$2s 2p^6 3p^3 P_2 - 2s 2p^6 4d^3 D_3$	6.9	1.05e+03
Fe XVII *	51.1164	$2s 2p^6 3p^3 P_2 - 2s 2p^6 4d^3 D_2$	6.9	2.01e+02
Fe XVII *	51.1411	$2s 2p^6 3p^1 P_1 - 2s 2p^6 4d^1 D_2$	6.9	5.04e+03
Fe XVII *	51.2668	$2s^2 2p^5 3p^3 P_2 - 2s^2 2p^5 4d^3 P_2$	6.9	1.28e+03
Fe XVIII *	51.5055	$2s^2 2p^4 (^3P) 3p^4 P_{5/2} - 2s^2 2p^4 (^3P) 4s^4 P_{5/2}$	6.9	2.52e+02
Fe XVII *	51.6695	$2s^2 2p^5 3p^3 P_0 - 2s^2 2p^5 4d^3 D_1$	6.9	1.26e+03
Fe XVIII *	51.7213	$2s 2p^5 (^3P) 3p^4 D_{5/2} - 2s 2p^5 (^3P) 4s^2 P_{3/2}$	6.9	2.08e+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	1.69e+02
Fe XX *	52.0580	$2s 2p^3 (^3D) 3p^4 P_{5/2} - 2s 2p^3 (^5S) 4s^4 S_{3/2}$	7.0	1.83e+02
Fe XVIII *	52.1855	$2s^2 2p^4 (^3P) 3p^2 D_{5/2} - 2s^2 2p^4 (^3P) 4s^2 P_{3/2}$	6.9	2.46e+02
Fe XVIII *	52.2458	$2s 2p^5 (^3P) 3p^2 P_{3/2} - 2s 2p^5 (^3P) 4s^4 P_{3/2}$	6.9	1.46e+02
Fe XVIII *	52.2554	$2s^2 2p^4 (^1D) 3p^2 F_{7/2} - 2s^2 2p^4 (^1D) 4s^2 D_{5/2}$	6.9	1.89e+02
Si XI	52.2980	$2s 2p^1 P_1 - 2s 3s^1 S_0$	6.3	1.27e+03
Al XI	52.2991	$1s^2 2p^2 P_{1/2} - 1s^2 3d^2 D_{3/2}$	6.9	6.77e+02
Fe XVIII *	52.3778	$2s^2 2p^4 (^3P) 3d^4 D_{5/2} - 2s^2 2p^4 (^3P) 4f^4 F_{7/2}$	6.9	1.64e+02

Table 1: (continued)

Ion	$\lambda$ (Å)	Transition	$T_{\max}$	Int
Fe XVIII *	52.3825	$2s^2 2p^4 ({}^3P) 3d {}^4D_{7/2} - 2s^2 2p^4 ({}^3P) 4f {}^4F_{9/2}$	6.9	2.04e+02
Fe XVIII *	52.4134	$2s 2p^5 ({}^3P) 3p {}^4D_{3/2} - 2s 2p^5 ({}^3P) 4s {}^2P_{3/2}$	6.9	3.00e+02
Fe XVIII *	52.4188	$2s^2 2p^4 ({}^3P) 3p {}^4D_{7/2} - 2s^2 2p^4 ({}^3P) 4s {}^4P_{5/2}$	6.9	3.28e+02
Al XI	52.4461	$1s^2 2p {}^2P_{3/2} - 1s^2 3d {}^2D_{5/2}$	6.9	1.22e+03
Si X	52.4850	$2s 2p^2 {}^2D_{5/2} - 2s 2p ({}^3P) 3d {}^2F_{7/2}$	6.2	2.08e+02
Fe XIX *	52.5355	$2s^2 2p^3 ({}^4S) 3d {}^3D_2 - 2s^2 2p^3 ({}^4S) 4p {}^3P_2$	7.0	1.51e+02
Si X	52.6110	$2s 2p^2 {}^2D_{3/2} - 2s 2p ({}^3P) 3d {}^2F_{5/2}$	6.2	1.74e+02
Ni XVIII	52.6150	$3d {}^2D_{3/2} - 4f {}^2F_{5/2}$	6.7	2.09e+02
Mg XI	52.6531	$1s 2s {}^1S_0 - 1s 3p {}^1P_1$	7.0	2.10e+02
Mg XI	52.7090	$1s 2p {}^3P_2 - 1s 3d {}^3D_3$	6.9	1.74e+02
Ni XVIII	52.7200	$3d {}^2D_{5/2} - 4f {}^2F_{7/2}$	6.7	2.97e+02
Fe XVII	52.7684	$2s^2 2p^5 3p {}^1S_0 - 2s^2 2p^5 4d {}^1P_1$	6.9	1.18e+03
Fe XVIII *	52.7834	$2s 2p^5 ({}^3P) 3p {}^4P_{5/2} - 2s 2p^5 ({}^3P) 4s {}^4P_{3/2}$	6.9	3.18e+02
Fe XVIII *	52.7835	$2s 2p^5 ({}^3P) 3p {}^2D_{5/2} - 2s 2p^5 ({}^3P) 4s {}^2P_{3/2}$	6.9	3.14e+02
Fe XIX *	52.8553	$2s^2 2p^3 ({}^2D) 3d {}^3D_3 - 2s^2 2p^3 ({}^2D) 4p {}^3P_2$	7.0	2.75e+02
Fe XVIII *	52.8767	$2s^2 2p^4 ({}^1D) 3d {}^2G_{9/2} - 2s^2 2p^4 ({}^1D) 4f {}^2H_{11/2}$	6.9	1.56e+02
Fe XV	52.9110	$3s^2 {}^1S_0 - 3s 4p {}^1P_1$	6.7	3.58e+03
Fe XVIII *	53.0009	$2s^2 2p^4 ({}^3P) 3d {}^4F_{9/2} - 2s^2 2p^4 ({}^3P) 4f {}^4G_{11/2}$	6.9	1.98e+02
Fe XVIII *	53.0191	$2s^2 2p^4 ({}^3P) 3d {}^4F_{5/2} - 2s^2 2p^4 ({}^3P) 4f {}^4D_{7/2}$	6.9	2.43e+02
Fe XIX *	53.0329	$2s^2 2p^3 ({}^2D) 3d {}^3D_2 - 2s^2 2p^3 ({}^2D) 4p {}^3P_2$	7.0	5.43e+02
Fe XVIII *	53.0862	$2s 2p^5 ({}^3P) 3d {}^4F_{7/2} - 2s 2p^5 ({}^3P) 4f {}^2G_{9/2}$	6.9	1.40e+02
Fe XV *	53.1700	$3s^2 {}^1S_0 - 3s 4p {}^3P_1$	6.4	4.01e+02
Fe XIX *	53.1739	$2s^2 2p^3 ({}^2D) 3d {}^3D_3 - 2s^2 2p^3 ({}^4S) 4f {}^3F_4$	7.0	1.60e+02
Fe XIX *	53.3023	$2s^2 2p^3 ({}^4S) 3d {}^3D_3 - 2s^2 2p^3 ({}^4S) 4p {}^3P_2$	7.0	7.84e+02
Fe XVIII *	53.3543	$2s^2 2p^4 ({}^3P) 3d {}^2F_{7/2} - 2s^2 2p^4 ({}^3P) 4f {}^2G_{9/2}$	6.9	2.06e+02
Fe XIX *	53.6746	$2s^2 2p^3 ({}^2D) 3d {}^3S_1 - 2s^2 2p^3 ({}^2D) 4p {}^3P_2$	7.0	5.56e+02
Mg XI	53.8112	$1s 2p {}^3P_1 - 1s 3s {}^3S_1$	7.0	1.71e+02
Mg XI	53.9149	$1s 2p {}^3P_2 - 1s 3s {}^3S_1$	7.0	4.73e+02
S X	54.0260	$2s 2p^4 {}^4P_{5/2} - 2s^2 2p^2 ({}^3P) 3p {}^4S_{3/2}$	6.2	2.20e+02
Fe XVI	54.1270	$3p {}^2P_{1/2} - 4d {}^2D_{3/2}$	6.8	7.70e+03
Fe XVIII *	54.1805	$2s^2 2p^4 ({}^3P) 3d {}^4P_{3/2} - 2s^2 2p^4 ({}^3P) 4f {}^2F_{5/2}$	6.9	3.52e+02
Al XI	54.2174	$1s^2 2p {}^2P_{1/2} - 1s^2 3s {}^2S_{1/2}$	6.9	3.06e+02
S X	54.2283	$2s 2p^4 {}^4P_{3/2} - 2s^2 2p^2 ({}^3P) 3p {}^4S_{3/2}$	6.2	1.73e+02
Fe XVIII *	54.2314	$2s^2 2p^4 ({}^3P) 3d {}^2D_{5/2} - 2s^2 2p^4 ({}^3P) 4f {}^4G_{7/2}$	6.9	2.07e+02
Al XI	54.3881	$1s^2 2p {}^2P_{3/2} - 1s^2 3s {}^2S_{1/2}$	6.9	6.18e+02
Fe XVIII *	54.5232	$2s^2 2p^4 ({}^3P) 3d {}^2F_{5/2} - 2s^2 2p^4 ({}^3P) 4f {}^2F_{7/2}$	6.9	6.67e+02
Fe XVI	54.7100	$3p {}^2P_{3/2} - 4d {}^2D_{5/2}$	6.8	1.36e+04
Mg XI	54.7141	$1s 2p {}^1P_1 - 1s 3d {}^1D_2$	7.0	2.43e+02
Fe XVI	54.7470	$3p {}^2P_{3/2} - 4d {}^2D_{3/2}$	6.8	1.56e+03
Ca XVIII	55.0386	$1s^2 3s {}^2S_{1/2} - 1s^2 4p {}^2P_{3/2}$	7.1	2.49e+02
Ni XVII *	55.0390	$3s 3p {}^1P_1 - 3s 4s {}^1S_0$	6.5	1.59e+02
Mg XI	55.1971	$1s 2p {}^1P_1 - 1s 3s {}^1S_0$	7.0	9.88e+02
Si IX	55.2720	$2s^2 2p^2 {}^3P_2 - 2s^2 2p 3d {}^3P_2$	6.1	2.99e+02
Si IX	55.3050	$2s^2 2p^2 {}^3P_0 - 2s^2 2p 3d {}^3D_1$	6.1	1.99e+02
Si IX	55.3560	$2s^2 2p^2 {}^3P_1 - 2s^2 2p 3d {}^3D_2$	6.1	4.32e+02
Si IX	55.4010	$2s^2 2p^2 {}^3P_2 - 2s^2 2p 3d {}^3D_3$	6.1	6.50e+02
Fe XVII	55.5482	$2s^2 2p^5 3p {}^1S_0 - 2s^2 2p^5 4d {}^3D_1$	6.9	3.69e+02
Fe XV	55.7920	$3s 3p {}^3P_1 - 3s 4d {}^3D_2$	6.4	2.56e+02
Fe XVII	55.9962	$2s^2 2p^5 3p {}^3S_1 - 2s^2 2p^5 4s {}^3P_2$	6.9	2.59e+02

Table 1: (continued)

Ion	$\lambda$ (Å)	Transition	$T_{\max}$	Int
Si IX	56.0270	$2s^2 2p^2 \ ^1D_2 - 2s^2 2p 3d \ ^1F_3$	6.1	1.65e+02
Ne IX	56.0448	$1s 2s \ ^3S_1 - 1s 4p \ ^3P_2$	6.8	3.10e+02
Fe XV	56.2000	$3s 3p \ ^3P_2 - 3s 4d \ ^3D_3$	6.4	4.55e+02
Ca XVIII	56.3925	$1s^2 3p \ ^2P_{1/2} - 1s^2 4d \ ^2D_{3/2}$	7.1	1.55e+02
Fe XVII	56.6853	$2s^2 2p^5 3p \ ^3D_2 - 2s^2 2p^5 4s \ ^1P_1$	6.9	5.76e+02
Ca XVIII	56.7181	$1s^2 3p \ ^2P_{3/2} - 1s^2 4d \ ^2D_{5/2}$	7.1	2.79e+02
Fe XVII	56.9085	$2s^2 2p^5 3p \ ^3D_2 - 2s^2 2p^5 4s \ ^3P_2$	6.9	2.05e+02
Fe XVII *	57.0200	$2s 2p^6 3p \ ^3P_1 - 2s 2p^6 4s \ ^1S_0$	6.9	4.29e+02
Fe XVII *	57.0600	$2s^2 2p^5 3p \ ^3D_1 - 2s^2 2p^5 4s \ ^3P_1$	6.9	2.89e+02
Si X	57.2090	$2s 2p^2 \ ^2D_{5/2} - 2s 2p \ (^3P) 3s \ ^2P_{3/2}$	6.2	2.89e+02
Fe XVII	57.3201	$2s^2 2p^5 3p \ ^3D_3 - 2s^2 2p^5 4s \ ^3P_2$	6.9	6.01e+02
Si X	57.3650	$2s 2p^2 \ ^2D_{3/2} - 2s 2p \ (^3P) 3s \ ^2P_{1/2}$	6.2	2.07e+02
Fe XVII	57.4195	$2s^2 2p^5 3p \ ^1P_1 - 2s^2 2p^5 4s \ ^1P_1$	6.9	5.98e+02
Fe XVII	57.6256	$2s^2 2p^5 3p \ ^1D_2 - 2s^2 2p^5 4s \ ^3P_1$	6.9	9.28e+02
Ca XVIII	57.6702	$1s^2 3d \ ^2D_{3/2} - 1s^2 4f \ ^2F_{5/2}$	7.1	3.23e+02
Fe XVII *	57.7661	$2s^2 2p^5 3d \ ^3D_1 - 2s^2 2p^5 4f \ ^3F_2$	6.9	2.37e+02
Ca XVIII	57.7702	$1s^2 3d \ ^2D_{5/2} - 1s^2 4f \ ^2F_{7/2}$	7.1	4.59e+02
Fe XVII	57.8752	$2s^2 2p^5 3p \ ^3P_2 - 2s^2 2p^5 4s \ ^1P_1$	6.9	5.50e+02
Mg X	57.8762	$1s^2 2s \ ^2S_{1/2} - 1s^2 3p \ ^2P_{3/2}$	6.9	4.63e+03
Fe XVII *	57.8873	$2s^2 2p^5 3p \ ^3P_1 - 2s^2 2p^5 4s \ ^3P_1$	6.9	2.05e+02
Mg X	57.9201	$1s^2 2s \ ^2S_{1/2} - 1s^2 3p \ ^2P_{1/2}$	6.9	2.35e+03
Fe XVII *	57.9760	$2s^2 2p^5 3p \ ^3P_1 - 2s^2 2p^5 4s \ ^3P_0$	6.9	1.59e+02
Fe XVII	58.1078	$2s^2 2p^5 3p \ ^3P_2 - 2s^2 2p^5 4s \ ^3P_2$	6.9	2.58e+02
Fe XVII *	58.1706	$2s 2p^6 3p \ ^1P_1 - 2s 2p^6 4s \ ^1S_0$	6.9	3.74e+03
Fe XVII	58.2969	$2s^2 2p^5 3d \ ^3P_1 - 2s^2 2p^5 4f \ ^3D_2$	6.9	5.04e+02
Ca XVIII	58.4284	$1s^2 3p \ ^2P_{3/2} - 1s^2 4s \ ^2S_{1/2}$	7.1	2.85e+02
Fe XVII	58.7601	$2s^2 2p^5 3d \ ^3P_2 - 2s^2 2p^5 4f \ ^3D_2$	6.9	3.16e+02
Fe XVII	58.7601	$2s^2 2p^5 3d \ ^3F_4 - 2s^2 2p^5 4f \ ^3G_5$	6.9	4.43e+02
Fe XVII *	58.8420	$2s^2 2p^5 3d \ ^3P_2 - 2s^2 2p^5 4f \ ^3F_3$	6.9	2.51e+02
Fe XVIII *	59.0486	$2s^2 2p^4 \ (^3P) 3d \ ^4F_{9/2} - 2s^2 2p^4 \ (^3P) 4p \ ^4D_{7/2}$	6.9	1.44e+02
Fe XVIII *	59.0486	$2s^2 2p^4 \ (^3P) 3d \ ^4F_{5/2} - 2s^2 2p^4 \ (^3P) 4p \ ^4D_{3/2}$	6.9	2.08e+02
Fe XVII *	59.1708	$2s^2 2p^5 3d \ ^3F_2 - 2s^2 2p^5 4f \ ^3G_3$	6.9	2.24e+02
Fe XVII *	59.2236	$2s 2p^6 3d \ ^3D_2 - 2s 2p^6 4f \ ^3F_3$	6.9	2.02e+02
Fe XVII *	59.2588	$2s 2p^6 3d \ ^3D_3 - 2s 2p^6 4f \ ^3F_4$	6.9	2.40e+02
Fe XVII	59.2601	$2s^2 2p^5 3d \ ^3F_3 - 2s^2 2p^5 4f \ ^1G_4$	6.9	4.11e+02
Fe XVII *	59.3340	$2s^2 2p^5 3d \ ^3D_2 - 2s^2 2p^5 4f \ ^3D_3$	6.9	3.40e+02
Fe XVIII *	59.3438	$2s^2 2p^4 \ (^1D) 3d \ ^2S_{1/2} - 2s^2 2p^4 \ (^1D) 4p \ ^2D_{3/2}$	6.9	2.37e+02
Fe XV	59.4050	$3s 3p \ ^1P_1 - 3s 4d \ ^1D_2$	6.7	4.22e+03
Fe XVIII *	59.5185	$2s^2 2p^4 \ (^3P) 3d \ ^4P_{5/2} - 2s^2 2p^4 \ (^3P) 4p \ ^4S_{3/2}$	6.9	1.78e+02
Fe XVIII *	59.5375	$2s^2 2p^4 \ (^3P) 3d \ ^4P_{3/2} - 2s^2 2p^4 \ (^3P) 4p \ ^2P_{3/2}$	6.9	3.12e+02
Fe XVIII *	59.5532	$2s^2 2p^4 \ (^1D) 3d \ ^2F_{5/2} - 2s^2 2p^4 \ (^1D) 4p \ ^2P_{3/2}$	6.9	1.87e+02
Fe XVII	59.5901	$2s^2 2p^5 3d \ ^1F_3 - 2s^2 2p^5 4f \ ^3G_4$	6.9	3.50e+02
Fe XVII *	59.5938	$2s^2 2p^5 3d \ ^1D_2 - 2s^2 2p^5 4f \ ^1F_3$	6.9	1.77e+02
Fe XVII *	59.6053	$2s^2 2p^5 3d \ ^1D_2 - 2s^2 2p^5 4f \ ^1D_2$	6.9	3.58e+02
Fe XVIII *	59.8653	$2s^2 2p^4 \ (^3P) 3d \ ^2F_{5/2} - 2s^2 2p^4 \ (^3P) 4p \ ^2P_{3/2}$	6.9	6.12e+02
Fe XVII *	59.8966	$2s^2 2p^5 3d \ ^3D_3 - 2s^2 2p^5 4f \ ^3F_4$	6.9	2.27e+02
Fe XVII *	59.9278	$2s^2 2p^5 3p \ ^3P_0 - 2s^2 2p^5 4s \ ^1P_1$	6.9	1.56e+02
S VII	60.1620	$2p^6 \ ^1S_0 - 2p^5 3d \ ^1P_1$	5.8	2.84e+02
Fe XVIII *	60.2317	$2s^2 2p^4 \ (^1D) 3d \ ^2P_{3/2} - 2s^2 2p^4 \ (^1D) 4p \ ^2D_{3/2}$	6.9	2.35e+02

Table 1: (continued)

Ion	$\lambda$ (Å)	Transition	$T_{\max}$	Int
Fe XVIII *	60.2419	$2s^2 2p^4 (^3P) 3d ^2D_{5/2} - 2s^2 2p^4 (^3P) 4p ^2D_{3/2}$	6.9	1.95e+02
Fe XVIII *	60.4490	$2s^2 2p^4 (^1D) 3d ^2D_{5/2} - 2s^2 2p^4 (^1D) 4p ^2D_{3/2}$	6.9	3.46e+02
Ne IX	60.6981	$1s 2p ^1P_1 - 1s 4s ^1S_0$	6.9	1.62e+02
Fe XVII *	60.7794	$2s 2p^6 3d ^1D_2 - 2s 2p^6 4f ^1F_3$	6.9	6.20e+02
Si VIII	60.9890	$2s^2 2p^3 ^4S_{3/2} - 2s^2 2p^2 (^3P) 3d ^4P_{1/2}$	6.0	1.43e+02
Si VIII	61.0190	$2s^2 2p^3 ^4S_{3/2} - 2s^2 2p^2 (^3P) 3d ^4P_{3/2}$	6.0	2.82e+02
Si VIII	61.0700	$2s^2 2p^3 ^4S_{3/2} - 2s^2 2p^2 (^3P) 3d ^4P_{5/2}$	6.0	4.18e+02
Fe XVII *	61.3198	$2s^2 2p^5 4s ^1P_1 - 2s^2 2p^5 7p ^1S_0$	6.9	2.37e+02
Fe XVII *	61.3596	$2s^2 2p^5 3d ^3D_1 - 2s^2 2p^5 4f ^1D_2$	6.9	8.62e+02
Fe XVIII *	61.3605	$2s^2 2p^4 (^1D) 3d ^2D_{3/2} - 2s^2 2p^4 (^1D) 4p ^2D_{3/2}$	6.9	4.01e+02
Fe XVII	61.3615	$2s^2 2p^5 3p ^1S_0 - 2s^2 2p^5 4s ^3P_1$	6.9	1.58e+02
Fe XVII *	61.8302	$2s^2 2p^5 3d ^1P_1 - 2s^2 2p^5 4f ^3F_2$	6.9	7.10e+02
S XIV *	61.8693	$1s^2 3s ^2S_{1/2} - 1s^2 5p ^2P_{3/2}$	7.1	2.54e+02
Si VIII	61.9140	$2s^2 2p^3 ^2D_{5/2} - 2s^2 2p^2 (^1D) 3d ^2F_{7/2}$	6.0	1.97e+02
Si X *	62.2820	$2s 2p^2 ^2D_{5/2} - 2s^2 (^1S) 3p ^2P_{3/2}$	6.2	1.73e+02
Mg IX	62.7510	$2s^2 ^1S_0 - 2s 3p ^1P_1$	6.0	1.58e+02
Fe XVI	62.8720	$3p ^2P_{1/2} - 4s ^2S_{1/2}$	6.8	1.61e+04
Mg X	63.1520	$1s^2 2p ^2P_{1/2} - 1s^2 3d ^2D_{3/2}$	6.9	2.96e+03
Mg X	63.2953	$1s^2 2p ^2P_{3/2} - 1s^2 3d ^2D_{5/2}$	6.9	5.28e+03
Mg X	63.3109	$1s^2 2p ^2P_{3/2} - 1s^2 3d ^2D_{3/2}$	6.9	5.90e+02
Fe XVI	63.7110	$3p ^2P_{3/2} - 4s ^2S_{1/2}$	6.8	3.30e+04
Fe XV	63.9570	$3p^2 ^1D_2 - 3s 4f ^1F_3$	6.7	1.62e+03
Fe XVII *	64.2871	$2s^2 2p^5 3d ^3D_1 - 2s^2 2p^5 4p ^1S_0$	6.9	1.87e+02
Fe XV	64.8780	$3p^2 ^3P_2 - 3s 4f ^1F_3$	6.7	3.44e+02
S XIV	65.1043	$1s^2 3p ^2P_{3/2} - 1s^2 5s ^2S_{1/2}$	7.0	2.25e+02
S XIV	65.2542	$1s^2 3d ^2D_{3/2} - 1s^2 5f ^2F_{5/2}$	7.0	2.77e+02
S XIV	65.3084	$1s^2 3d ^2D_{5/2} - 1s^2 5f ^2F_{7/2}$	7.0	3.95e+02
Ne X	65.4397	$2p ^2P_{1/2} - 3d ^2D_{3/2}$	7.0	9.56e+02
Ne X	65.4466	$2s ^2S_{1/2} - 3p ^2P_{3/2}$	7.1	2.32e+03
Ne X	65.4841	$2p ^2P_{1/2} - 3s ^2S_{1/2}$	7.1	1.60e+03
Ne X	65.4932	$2s ^2S_{1/2} - 3p ^2P_{1/2}$	7.1	1.31e+03
Ne X	65.5818	$2p ^2P_{3/2} - 3d ^2D_{5/2}$	7.0	1.71e+03
Ne X	65.5973	$2p ^2P_{3/2} - 3d ^2D_{3/2}$	7.0	1.90e+02
Fe XV	65.6150	$3s 3p ^3P_1 - 3s 4s ^3S_1$	6.4	1.44e+02
Ne X	65.6420	$2p ^2P_{3/2} - 3s ^2S_{1/2}$	7.1	3.24e+03
Mg X	65.6736	$1s^2 2p ^2P_{1/2} - 1s^2 3s ^2S_{1/2}$	6.8	1.34e+03
Mg X	65.8455	$1s^2 2p ^2P_{3/2} - 1s^2 3s ^2S_{1/2}$	6.8	2.70e+03
Fe XVII *	65.9651	$2s^2 2p^5 3d ^1P_1 - 2s^2 2p^5 4f ^1D_2$	6.9	1.80e+02
Fe XV	66.2300	$3s 3p ^3P_2 - 3s 4s ^3S_1$	6.4	2.43e+02
Fe XVI	66.2490	$3d ^2D_{3/2} - 4f ^2F_{5/2}$	6.8	1.17e+04
Fe XVI	66.3570	$3d ^2D_{5/2} - 4f ^2F_{7/2}$	6.8	1.67e+04
Fe XVI	66.3770	$3d ^2D_{5/2} - 4f ^2F_{5/2}$	6.8	8.36e+02
Fe XVII *	66.7456	$2s^2 2p^5 3d ^3P_1 - 2s^2 2p^5 4p ^3S_1$	6.9	1.85e+02
Fe XVII *	66.9099	$2s^2 2p^5 3d ^3F_4 - 2s^2 2p^5 4p ^3D_3$	6.9	3.62e+02
Fe XXIV	67.2089	$1s^2 4s ^2S_{1/2} - 1s^2 5p ^2P_{3/2}$	7.3	5.85e+02
Fe XXIV *	67.2097	$1s^2 4s ^2S_{1/2} - 1s^2 5p ^2P_{1/2}$	7.3	2.99e+02
Fe XVII *	67.3793	$2s^2 2p^5 3d ^3D_2 - 2s^2 2p^5 4p ^3P_1$	6.9	2.38e+02
Ne VIII	67.3819	$1s^2 2s ^2S_{1/2} - 1s^2 4p ^2P_{3/2}$	6.7	2.85e+02
Ne VIII	67.3865	$1s^2 2s ^2S_{1/2} - 1s^2 4p ^2P_{1/2}$	6.7	1.48e+02

Table 1: (continued)

Ion	$\lambda$ (Å)	Transition	$T_{\max}$	Int
Fe XVII *	67.4364	$2s^2 2p^5 3d \ ^3F_3 - 2s^2 2p^5 4p \ ^1D_2$	6.9	2.76e+02
Fe XVII *	67.5019	$2s^2 2p^5 3d \ ^1F_3 - 2s^2 2p^5 4p \ ^3D_2$	6.9	3.38e+02
Fe XVII *	67.5636	$2s^2 2p^5 3d \ ^3F_2 - 2s^2 2p^5 4p \ ^3D_1$	6.9	1.86e+02
Fe XVII *	67.7190	$2s^2 2p^5 3d \ ^1D_2 - 2s^2 2p^5 4p \ ^1P_1$	6.9	1.49e+02
O VIII	67.7221	$2p \ ^2P_{1/2} - 5d \ ^2D_{3/2}$	7.1	5.17e+02
O VIII	67.7254	$2s \ ^2S_{1/2} - 5p \ ^2P_{3/2}$	7.1	1.30e+03
O VIII	67.7262	$2p \ ^2P_{1/2} - 5s \ ^2S_{1/2}$	7.1	3.98e+02
O VIII	67.7298	$2s \ ^2S_{1/2} - 5p \ ^2P_{1/2}$	7.1	7.45e+02
O VIII	67.7896	$2p \ ^2P_{3/2} - 5d \ ^2D_{5/2}$	7.1	9.22e+02
O VIII	67.7952	$2p \ ^2P_{3/2} - 5s \ ^2S_{1/2}$	7.1	7.94e+02
Fe XVII *	67.9262	$2s^2 2p^5 3d \ ^3D_3 - 2s^2 2p^5 4p \ ^3P_2$	6.9	2.66e+02
Fe XVII *	68.3204	$2s^2 2p^5 3d \ ^3D_1 - 2s^2 2p^5 4p \ ^3P_0$	6.9	1.66e+03
Si IX *	68.3610	$2s \ 2p^3 \ ^3D_3 - 2s^2 \ 2p \ 3p \ ^3P_2$	6.1	1.42e+02
Ar XVI	68.4040	$1s^2 \ 3s \ ^2S_{1/2} - 1s^2 \ 4p \ ^2P_{3/2}$	7.1	4.51e+02
Ar XVI	68.5526	$1s^2 \ 3s \ ^2S_{1/2} - 1s^2 \ 4p \ ^2P_{1/2}$	7.1	2.38e+02
Fe XXIV	68.9847	$1s^2 \ 4p \ ^2P_{1/2} - 1s^2 \ 5d \ ^2D_{3/2}$	7.3	2.53e+02
Fe XVII *	69.3608	$2s^2 2p^5 3d \ ^1P_1 - 2s^2 2p^5 4p \ ^1S_0$	6.9	2.68e+03
Fe XXIV	69.4301	$1s^2 \ 4p \ ^2P_{3/2} - 1s^2 \ 5d \ ^2D_{5/2}$	7.3	4.59e+02
Ni XXI	69.6186	$2s^2 \ 2p^4 \ ^3P_2 - 2s \ 2p^5 \ ^1P_1$	7.0	2.89e+02
Si VIII	69.6320	$2s^2 \ 2p^3 \ ^4S_{3/2} - 2s^2 \ 2p^2 \ (^3P) \ 3s \ ^4P_{5/2}$	6.0	1.89e+02
Fe XV	69.6820	$3s \ 3p \ ^1P_1 - 3s \ 4s \ ^1S_0$	6.4	1.03e+04
Fe XXIV *	69.9383	$1s^2 \ 4d \ ^2D_{3/2} - 1s^2 \ 5f \ ^2F_{5/2}$	7.3	7.84e+02
Fe XV	69.9410	$3s \ 3d \ ^3D_1 - 3s \ 4f \ ^3F_2$	6.4	3.04e+02
Fe XV	69.9870	$3s \ 3d \ ^3D_2 - 3s \ 4f \ ^3F_3$	6.4	4.04e+02
Fe XV	70.0540	$3s \ 3d \ ^3D_3 - 3s \ 4f \ ^3F_4$	6.4	6.87e+02
Fe XXIV *	70.1221	$1s^2 \ 4d \ ^2D_{5/2} - 1s^2 \ 5f \ ^2F_{7/2}$	7.3	1.12e+03
Fe XXIV *	70.1715	$1s^2 \ 4f \ ^2F_{5/2} - 1s^2 \ 5g \ ^2G_{7/2}$	7.3	2.13e+02
Fe XXIV *	70.2580	$1s^2 \ 4f \ ^2F_{7/2} - 1s^2 \ 5g \ ^2G_{9/2}$	7.3	2.80e+02
Fe XXIV	70.6940	$1s^2 \ 4p \ ^2P_{1/2} - 1s^2 \ 5s \ ^2S_{1/2}$	7.3	3.52e+02
Ar XVI	70.9211	$1s^2 \ 3p \ ^2P_{1/2} - 1s^2 \ 4d \ ^2D_{3/2}$	7.1	2.74e+02
Fe XXIV	71.2404	$1s^2 \ 4d \ ^2D_{5/2} - 1s^2 \ 5p \ ^2P_{3/2}$	7.3	1.58e+02
Ar XVI	71.2760	$1s^2 \ 3p \ ^2P_{3/2} - 1s^2 \ 4d \ ^2D_{5/2}$	7.1	4.94e+02
Fe XXIII	71.3015	$2s \ 4s \ ^1S_0 - 2s \ 5p \ ^1P_1$	7.2	2.35e+02
Fe XXIV	71.4058	$1s^2 \ 4p \ ^2P_{3/2} - 1s^2 \ 5s \ ^2S_{1/2}$	7.3	7.57e+02
Ni XXII	71.4880	$2s^2 \ 2p^3 \ ^4S_{3/2} - 2s \ 2p^4 \ ^2P_{3/2}$	7.0	1.92e+02
Fe XXIII *	71.5040	$2s \ 4s \ ^3S_1 - 2s \ 5p \ ^3P_1$	7.2	1.64e+02
Fe XXIII	71.7394	$2s \ 4p \ ^1P_1 - 2s \ 5d \ ^1D_2$	7.2	4.80e+02
S VII	72.0290	$2p^6 \ ^1S_0 - 2p^5 \ 3s \ ^1P_1$	5.7	3.07e+02
Mg IX	72.3120	$2s \ 2p \ ^1P_1 - 2s \ 3d \ ^1D_2$	6.0	3.01e+02
Fe XVII *	72.5266	$2s^2 \ 2p^5 \ 4s \ ^1P_1 - 2s^2 \ 2p^5 \ 6p \ ^1S_0$	6.9	4.11e+02
S VII	72.6640	$2p^6 \ ^1S_0 - 2p^5 \ 3s \ ^3P_1$	5.7	1.76e+02
Fe XVII *	72.7805	$2s^2 \ 2p^5 \ 4s \ ^3P_1 - 2s^2 \ 2p^5 \ 6p \ ^3P_0$	6.9	2.74e+02
S VII	72.8980	$2p^6 \ ^1S_0 - 2p^5 \ 3s \ ^3P_2$	5.7	2.51e+02
Ar XVI *	72.9974	$1s^2 \ 3d \ ^2D_{3/2} - 1s^2 \ 4f \ ^2F_{5/2}$	7.1	5.48e+02
Ar XVI *	73.0920	$1s^2 \ 3d \ ^2D_{5/2} - 1s^2 \ 4f \ ^2F_{7/2}$	7.1	7.81e+02
Ar XVI	73.1659	$1s^2 \ 3p \ ^2P_{1/2} - 1s^2 \ 4s \ ^2S_{1/2}$	7.1	2.44e+02
Fe XV	73.4720	$3s \ 3d \ ^1D_2 - 3s \ 4f \ ^1F_3$	6.7	4.11e+03
Ne VIII	73.4756	$1s^2 \ 2p \ ^2P_{1/2} - 1s^2 \ 4d \ ^2D_{3/2}$	6.7	1.61e+02
Ne VIII	73.5631	$1s^2 \ 2p \ ^2P_{3/2} - 1s^2 \ 4d \ ^2D_{5/2}$	6.7	2.91e+02

Table 1: (continued)

Ion	$\lambda$ (Å)	Transition	$T_{\max}$	Int
Ar XVI	73.5966	$1s^2 3p^2 P_{3/2} - 1s^2 4s^2 S_{1/2}$	7.1	5.00e+02
Ne IX	74.3485	$1s 2s^3 S_1 - 1s 3p^3 P_2$	6.8	9.28e+02
Ne IX	74.3739	$1s 2s^3 S_1 - 1s 3p^3 P_1$	6.8	3.91e+02
Mg VIII	74.8580	$2s^2 2p^2 P_{1/2} - 2s^2 3d^2 D_{3/2}$	6.0	2.40e+02
Fe XXII *	74.8848	$2s^2 4s^2 S_{1/2} - 2s^2 5p^2 P_{3/2}$	7.1	1.60e+02
Mg VIII	75.0340	$2s^2 2p^2 P_{3/2} - 2s^2 3d^2 D_{5/2}$	6.0	4.53e+02
Fe XV	75.1670	$3p^2^1 D_2 - 3s 4p^1 P_1$	6.7	4.04e+02
Fe XXIII	75.1941	$2s 4p^3 P_1 - 2s 5s^1 S_0$	7.2	1.43e+02
Fe XXII *	75.2773	$2s^2 4s^2 S_{1/2} - 2s^2 5p^2 P_{1/2}$	7.1	4.61e+02
Fe XXIII *	75.5794	$2s 4d^3 D_2 - 2s 5f^3 F_3$	7.2	1.86e+02
Fe XXIII *	75.7093	$2s 4d^3 D_3 - 2s 5f^3 F_4$	7.2	2.34e+02
O VIII	75.8404	$2p^2 P_{1/2} - 4d^2 D_{3/2}$	7.1	1.05e+03
O VIII	75.8447	$2s^2 S_{1/2} - 4p^2 P_{3/2}$	7.1	2.55e+03
O VIII	75.8507	$2p^2 P_{1/2} - 4s^2 S_{1/2}$	7.1	9.20e+02
O VIII	75.8554	$2s^2 S_{1/2} - 4p^2 P_{1/2}$	7.1	1.44e+03
O VIII	75.9233	$2p^2 P_{3/2} - 4d^2 D_{5/2}$	7.1	1.86e+03
O VIII	75.9269	$2p^2 P_{3/2} - 4d^2 D_{3/2}$	7.1	2.10e+02
O VIII	75.9372	$2p^2 P_{3/2} - 4s^2 S_{1/2}$	7.1	1.83e+03
Fe XXIII	76.1968	$2s 4p^1 P_1 - 2s 5s^1 S_0$	7.2	6.47e+02
Fe XVI	76.3270	$3d^2 D_{3/2} - 4p^2 P_{3/2}$	6.8	2.40e+02
Fe XVI	76.4970	$3d^2 D_{5/2} - 4p^2 P_{3/2}$	6.8	2.18e+03
Fe XXIII *	76.7088	$2s 4d^1 D_2 - 2s 5f^1 F_3$	7.2	1.05e+03
Fe XVI	76.7960	$3d^2 D_{3/2} - 4p^2 P_{1/2}$	6.8	1.29e+03
Fe XVIII *	77.2096	$2s^2 2p^4 (^3P) 3d^4 F_{9/2} - 2s 2p^5 (^1P) 3d^2 F_{7/2}$	6.9	1.69e+02
Fe XXII *	77.5291	$2s^2 4p^2 P_{1/2} - 2s^2 5d^2 D_{3/2}$	7.1	5.24e+02
Fe XXI *	77.5909	$2s^2 2p 4s^3 P_1 - 2s^2 2p 5p^3 P_0$	7.1	7.34e+02
Fe XXI *	77.6875	$2s^2 2p 4s^3 P_1 - 2s^2 2p 5p^3 D_2$	7.1	1.56e+02
Mg IX	77.7370	$2s 2p^1 P_1 - 2s 3s^1 S_0$	6.0	2.41e+02
Fe X	77.8650	$3s^2 3p^5 ^2 P_{3/2} - 3s^2 3p^4 (^3P) 4d^2 D_{5/2}$	6.0	1.74e+02
Ni XIX *	78.0781	$2p^5 3s^3 P_1 - 2s 2p^6 3s^1 S_0$	6.8	3.38e+02
Ne IX	78.2566	$1s 2s^1 S_0 - 1s 3p^1 P_1$	6.9	1.59e+02
Fe XIX	78.8894	$2s^2 2p^4 ^3 P_2 - 2s 2p^5 ^1 P_1$	7.0	4.67e+03
Fe XXI *	79.6202	$2s^2 2p 4p^3 D_1 - 2s^2 2p 5d^3 D_1$	7.1	2.15e+02
Ni XXIII	79.9720	$2s^2 2p^2 ^3 P_0 - 2s 2p^3 ^3 S_1$	7.1	2.20e+03
Ne IX	80.4539	$1s 2p^3 P_2 - 1s 3s^3 S_1$	6.8	2.83e+02
Fe XX	80.4887	$2s^2 2p^3 ^4 S_{3/2} - 2s 2p^4 ^2 P_{3/2}$	7.0	2.59e+03
Ni XXII	80.5580	$2s^2 2p^3 ^2 D_{3/2} - 2s 2p^4 ^2 P_{3/2}$	7.0	3.07e+02
Fe XXII *	80.9096	$2s^2 4d^2 D_{3/2} - 2s^2 5f^2 F_{5/2}$	7.1	4.53e+02
Fe XXII *	81.1151	$2s^2 4d^2 D_{5/2} - 2s^2 5f^2 F_{7/2}$	7.1	1.76e+02
Fe XXII *	81.1848	$2s 2p (^3P) 4d^4 F_{5/2} - 2s 2p (^3P) 5f^4 D_{7/2}$	7.1	1.47e+02
Fe XXI *	81.4595	$2s^2 2p 4p^3 P_0 - 2s^2 2p 5d^3 D_1$	7.1	4.25e+02
Ne IX	81.5769	$1s 2p^1 P_1 - 1s 3d^1 D_2$	6.9	1.56e+02
Ni XXI	81.6895	$2s^2 2p^4 ^1 D_2 - 2s 2p^5 ^1 P_1$	7.0	2.56e+03
Fe XXII *	81.8992	$2s 2p (^3P) 4d^2 D_{3/2} - 2s 2p (^3P) 5f^2 D_{5/2}$	7.1	1.78e+02
Fe XXII *	82.2988	$2s 2p (^3P) 4d^2 F_{5/2} - 2s 2p (^3P) 5f^2 G_{7/2}$	7.1	2.01e+02
Fe XXII *	82.7306	$2s 2p (^3P) 4p^2 P_{1/2} - 2s 2p (^3P) 5s^2 P_{1/2}$	7.1	1.51e+02
Ne IX	82.7597	$1s 2p^1 P_1 - 1s 3s^1 S_0$	6.9	6.21e+02
Fe XV *	82.9810	$3s 3d^3 D_3 - 3s 4p^3 P_2$	6.4	3.10e+02
Ni XX	83.1741	$2s^2 2p^5 ^2 P_{3/2} - 2s 2p^6 ^2 S_{1/2}$	6.9	1.71e+04

Table 1: (continued)

Ion	$\lambda$ (Å)	Transition	$T_{\max}$	Int
Fe XX	83.2327	$2s^2 2p^3 {}^2D_{3/2} - 2s 2p^4 {}^2P_{1/2}$	7.0	1.92e+03
Fe XXII *	83.3949	$2s 2p ({}^3P) 4p {}^2D_{3/2} - 2s 2p ({}^3P) 5s {}^2P_{1/2}$	7.1	2.60e+02
Si XII	83.6276	$1s^2 3s {}^2S_{1/2} - 1s^2 5p {}^2P_{3/2}$	7.0	1.82e+02
Fe XX	83.6688	$2s^2 2p^3 {}^4S_{3/2} - 2s 2p^4 {}^2S_{1/2}$	7.0	5.32e+02
Fe XIX	83.8681	$2s^2 2p^4 {}^3P_0 - 2s 2p^5 {}^1P_1$	7.0	5.08e+02
Mg VII	83.9600	$2s^2 2p^2 {}^3P_1 - 2s^2 2p 3d {}^3D_2$	5.9	1.77e+02
Mg VII	84.0260	$2s^2 2p^2 {}^3P_2 - 2s^2 2p 3d {}^3D_3$	5.9	2.76e+02
Ni XXII	84.0700	$2s^2 2p^3 {}^2D_{5/2} - 2s 2p^4 {}^2P_{3/2}$	7.0	2.61e+03
Fe XX *	84.0717	$2s^2 2p^2 ({}^3P) 4s {}^4P_{1/2} - 2s^2 2p^2 ({}^3P) 5p {}^4P_{3/2}$	7.0	1.94e+02
Fe XXI	84.2426	$2s^2 2p^2 {}^3P_1 - 2s 2p^3 {}^1P_1$	7.1	1.05e+03
Ni XXII	84.2510	$2s^2 2p^3 {}^2D_{3/2} - 2s 2p^4 {}^2S_{1/2}$	7.0	5.66e+02
Fe XXII *	84.7147	$2s^2 4d {}^2D_{3/2} - 2s^2 5p {}^2P_{1/2}$	7.1	1.49e+02
Fe XIX	84.8783	$2s^2 2p^4 {}^3P_1 - 2s 2p^5 {}^1P_1$	7.0	3.21e+02
Zn XXIII	85.0178	$2s^2 2p^4 {}^3P_2 - 2s 2p^5 {}^3P_2$	7.0	2.94e+02
Ni XXII	85.0320	$2s^2 2p^3 {}^4S_{3/2} - 2s 2p^4 {}^2D_{3/2}$	7.0	2.57e+02
Mg VII	85.4080	$2s^2 2p^2 {}^1D_2 - 2s^2 2p 3d {}^1F_3$	5.9	1.98e+02
Co XX	86.1880	$2s^2 2p^4 {}^1D_2 - 2s 2p^5 {}^1P_1$	7.0	1.63e+02
Fe XIX	86.9990	$2s 2p^5 {}^3P_1 - 2p^6 {}^1S_0$	6.9	2.57e+02
Fe XVIII	87.1957	$2s^2 2p^4 ({}^1D) 3s {}^2D_{5/2} - 2s 2p^5 ({}^1P) 3s {}^2P_{3/2}$	6.9	4.74e+02
Fe XVII	87.3234	$2s^2 2p^5 3s {}^1P_1 - 2s 2p^6 3s {}^1S_0$	6.9	1.36e+04
Ni XIX *	87.4526	$2p^5 3s {}^1P_1 - 2s 2p^6 3s {}^1S_0$	6.8	1.61e+02
Ni XXIV	87.4601	$2s^2 2p {}^2P_{1/2} - 2s 2p^2 {}^2P_{3/2}$	7.1	1.18e+03
Ni XXIII	87.6690	$2s^2 2p^2 {}^3P_1 - 2s 2p^3 {}^3S_1$	7.1	5.20e+03
Fe XVIII *	87.6834	$2s^2 2p^4 ({}^1D) 3p {}^2F_{7/2} - 2s 2p^5 ({}^1P) 3p {}^2D_{5/2}$	6.9	1.79e+02
Fe XX *	87.9543	$2s^2 2p^2 ({}^3P) 4p {}^4P_{3/2} - 2s^2 2p^2 ({}^3P) 5d {}^4F_{5/2}$	7.0	1.92e+02
Fe XVIII *	88.0250	$2s^2 2p^4 ({}^1D) 3d {}^2F_{5/2} - 2s 2p^5 ({}^1P) 3d {}^2D_{5/2}$	6.9	2.22e+02
Fe XVIII *	88.0400	$2s^2 2p^4 ({}^1D) 3d {}^2G_{7/2} - 2s 2p^5 ({}^1P) 3d {}^2F_{5/2}$	6.9	6.00e+02
Ne VIII	88.0817	$1s^2 2s {}^2S_{1/2} - 1s^2 3p {}^2P_{3/2}$	6.7	1.61e+03
Ne VIII	88.1196	$1s^2 2s {}^2S_{1/2} - 1s^2 3p {}^2P_{1/2}$	6.7	8.21e+02
Fe XVIII *	88.1423	$2s^2 2p^4 ({}^1D) 3d {}^2G_{9/2} - 2s 2p^5 ({}^1P) 3d {}^2F_{7/2}$	6.9	1.57e+03
Co XIX	88.3500	$2s^2 2p^5 {}^2P_{3/2} - 2s 2p^6 {}^2S_{1/2}$	6.9	1.00e+03
Fe XX *	88.4529	$2s^2 2p^2 ({}^3P) 4p {}^4S_{3/2} - 2s^2 2p^2 ({}^3P) 5d {}^4P_{3/2}$	7.0	1.46e+02
Si XII	88.5647	$1s^2 3p {}^2P_{3/2} - 1s^2 5s {}^2S_{1/2}$	7.0	1.56e+02
Ni XXIV	88.6114	$2s^2 2p {}^2P_{1/2} - 2s 2p^2 {}^2P_{1/2}$	7.1	6.88e+04
Fe XV	88.6620	$3s 3d {}^1D_2 - 3s 4p {}^1P_1$	6.7	1.49e+02
S XIV	88.7502	$1s^2 3s {}^2S_{1/2} - 1s^2 4p {}^2P_{3/2}$	7.1	5.51e+02
Fe XVII *	88.8037	$2s^2 2p^5 3p {}^3S_1 - 2s 2p^6 3p {}^3P_0$	6.9	2.43e+02
Ni XXI	88.8219	$2s^2 2p^4 {}^3P_2 - 2s 2p^5 {}^3P_1$	7.0	8.47e+03
Si XII	88.8369	$1s^2 3d {}^2D_{3/2} - 1s^2 5f {}^2F_{5/2}$	7.0	1.86e+02
Fe XVIII *	88.8733	$2s^2 2p^4 ({}^1D) 3d {}^2F_{7/2} - 2s 2p^5 ({}^1P) 3d {}^2D_{5/2}$	6.9	6.74e+02
Si XII	88.8914	$1s^2 3d {}^2D_{5/2} - 1s^2 5f {}^2F_{7/2}$	7.0	2.65e+02
S XIV	88.8985	$1s^2 3s {}^2S_{1/2} - 1s^2 4p {}^2P_{1/2}$	7.1	2.88e+02
Fe XVII	89.0563	$2s^2 2p^5 3d {}^3P_2 - 2s 2p^6 3d {}^1D_2$	6.9	7.79e+02
Fe XVII	89.5923	$2s^2 2p^5 3d {}^3F_3 - 2s 2p^6 3d {}^1D_2$	6.9	3.63e+03
Fe XIX *	89.6716	$2s^2 2p^3 ({}^2D) 3d {}^3F_4 - 2s 2p^4 ({}^2P) 3d {}^3F_4$	7.0	2.97e+02
Fe XVII *	89.9199	$2s^2 2p^5 4d {}^3D_1 - 2s^2 2p^5 6p {}^1S_0$	6.9	1.99e+02
Zn XXIV	90.0262	$2s^2 2p^3 {}^4S_{3/2} - 2s 2p^4 {}^4P_{1/2}$	7.1	1.51e+02
Fe XIX *	90.0850	$2s^2 2p^3 ({}^2D) 3s {}^3D_3 - 2s 2p^4 ({}^2P) 3s {}^3P_2$	7.0	4.92e+02
Fe XVII *	90.3922	$2s^2 2p^5 3d {}^3P_1 - 2s 2p^6 3d {}^3D_1$	6.9	1.78e+02



Table 1: (continued)

Ion	$\lambda$ (Å)	Transition	$T_{\max}$	Int
Fe XXI *	90.4118	$2s^2 2p 4d \ ^3D_1 - 2s^2 2p 5p \ ^3P_0$	7.1	2.46e+02
Fe XVII *	90.4951	$2s^2 2p^5 3p \ ^3D_3 - 2s 2p^6 3p \ ^3P_2$	6.9	1.86e+03
Fe XVII *	90.5816	$2s^2 2p^5 3s \ ^3P_2 - 2s 2p^6 3s \ ^3S_1$	6.9	2.07e+03
Fe XX	90.5943	$2s^2 2p^3 \ ^2D_{3/2} - 2s 2p^4 \ ^2P_{3/2}$	7.0	8.22e+03
Fe XIX *	90.6578	$2s^2 2p^3 \ (^2D) 3d \ ^3G_5 - 2s 2p^4 \ (^2P) 3d \ ^3F_4$	7.0	2.16e+03
Fe XVII *	90.7318	$2s^2 2p^5 4s \ ^1P_1 - 2s 2p^6 4s \ ^1S_0$	6.9	6.72e+02
Fe XVII	90.7514	$2s^2 2p^5 3d \ ^1D_2 - 2s 2p^6 3d \ ^1D_2$	6.9	2.88e+03
Fe XIX *	90.8404	$2s^2 2p^3 \ (^2D) 3d \ ^1G_4 - 2s 2p^4 \ (^2P) 3d \ ^1F_3$	7.0	4.43e+02
Fe XIX	91.0128	$2s^2 2p^4 \ ^1D_2 - 2s 2p^5 \ ^1P_1$	7.0	4.98e+04
Fe XVII *	91.1447	$2s^2 2p^5 5s \ ^1P_1 - 2s 2p^6 5s \ ^1S_0$	6.9	2.63e+02
Fe XVIII *	91.1476	$2s^2 2p^4 \ (^1D) 3d \ ^2F_{7/2} - 2s 2p^5 \ (^1P) 3d \ ^2F_{7/2}$	6.9	2.58e+02
Ni XXII	91.2170	$2s^2 2p^3 \ ^2P_{1/2} - 2s 2p^4 \ ^2P_{3/2}$	7.0	2.39e+02
Fe XXI	91.2678	$2s^2 2p^2 \ ^3P_0 - 2s 2p^3 \ ^3S_1$	7.1	5.42e+04
Fe XVII	91.4029	$2s^2 2p^5 3d \ ^3D_3 - 2s 2p^6 3d \ ^1D_2$	6.9	5.03e+03
Fe XVII *	91.4479	$2s^2 2p^5 3d \ ^3F_4 - 2s 2p^6 3d \ ^3D_3$	6.9	2.37e+03
O VII *	91.4488	$1s 2s \ ^3S_1 - 1s 4p \ ^3P_2$	6.4	2.31e+02
Fe XVII *	91.5255	$2s^2 2p^5 4d \ ^3D_3 - 2s 2p^6 4d \ ^1D_2$	6.9	1.66e+02
Fe XVII *	91.5535	$2s^2 2p^5 3d \ ^3P_2 - 2s 2p^6 3d \ ^3D_2$	6.9	2.85e+02
Ni XXIII	91.8690	$2s^2 2p^2 \ ^3P_2 - 2s 2p^3 \ ^3S_1$	7.1	1.30e+04
Fe XVII *	91.9288	$2s^2 2p^5 3s \ ^1P_1 - 2s 2p^6 3s \ ^3S_1$	6.9	5.47e+02
Zn XXIV	92.1610	$2s^2 2p^3 \ ^4S_{3/2} - 2s 2p^4 \ ^4P_{3/2}$	7.1	2.92e+02
Fe XVII *	92.2057	$2s^2 2p^5 3d \ ^3F_3 - 2s 2p^6 3d \ ^3D_2$	6.9	1.38e+03
Fe XIX *	92.3430	$2s^2 2p^3 \ (^2D) 4s \ ^3D_3 - 2s 2p^4 \ (^2P) 4s \ ^3P_2$	7.0	2.87e+02
Fe XVII *	92.5430	$2s^2 2p^5 3p \ ^3P_2 - 2s 2p^6 3p \ ^3P_2$	6.9	4.73e+02
Co XXII	92.5890	$2s^2 2p^2 \ ^3P_1 - 2s 2p^3 \ ^3S_1$	7.1	3.19e+02
Fe XX	92.6127	$2s^2 2p^3 \ ^2P_{1/2} - 2s 2p^4 \ ^2P_{1/2}$	7.0	2.46e+02
Ni XXIII	92.7160	$2s^2 2p^2 \ ^3P_0 - 2s 2p^3 \ ^3P_1$	7.1	2.12e+03
Fe XVII	92.8316	$2s^2 2p^5 3p \ ^3D_2 - 2s 2p^6 3p \ ^3P_1$	6.9	5.41e+02
Fe XVII	92.9055	$2s^2 2p^5 3p \ ^3P_2 - 2s 2p^6 3p \ ^1P_1$	6.9	1.71e+02
S XIV	93.0624	$1s^2 3p \ ^2P_{1/2} - 1s^2 4d \ ^2D_{3/2}$	7.0	3.27e+02
Fe XVII *	93.1870	$2s^2 2p^5 3p \ ^1P_1 - 2s 2p^6 3p \ ^3P_0$	6.9	2.35e+02
S XIV	93.4005	$1s^2 3p \ ^2P_{3/2} - 1s^2 4d \ ^2D_{5/2}$	7.0	5.92e+02
Fe XVII *	93.5447	$2s^2 2p^5 3d \ ^1D_2 - 2s 2p^6 3d \ ^3D_1$	6.9	6.24e+02
Fe XX	93.7811	$2s^2 2p^3 \ ^2D_{5/2} - 2s 2p^4 \ ^2P_{3/2}$	7.0	5.28e+04
Fe XVIII	93.9232	$2s^2 2p^5 \ ^2P_{3/2} - 2s 2p^6 \ ^2S_{1/2}$	6.9	2.90e+05
Fe X	94.0120	$3s^2 3p^5 \ ^2P_{3/2} - 3s^2 3p^4 \ (^1D) 4s \ ^2D_{5/2}$	6.0	2.08e+02
Fe XVII *	94.0648	$2s^2 2p^5 3d \ ^3D_3 - 2s 2p^6 3d \ ^3D_3$	6.9	5.57e+02
Fe XVII *	94.2467	$2s^2 2p^5 3d \ ^3D_3 - 2s 2p^6 3d \ ^3D_2$	6.9	1.80e+02
Fe XX *	94.3601	$2s^2 2p^2 \ (^3P) 3s \ ^4P_{3/2} - 2s 2p^3 \ (^3S) 3s \ ^4S_{3/2}$	7.0	2.64e+02
Ni XX	94.4877	$2s^2 2p^5 \ ^2P_{1/2} - 2s 2p^6 \ ^2S_{1/2}$	6.9	5.06e+03
Fe XVII	94.6361	$2s^2 2p^5 3d \ ^3D_1 - 2s 2p^6 3d \ ^1D_2$	6.9	3.65e+02
Fe XX	94.6432	$2s^2 2p^3 \ ^2D_{3/2} - 2s 2p^4 \ ^2S_{1/2}$	7.0	1.20e+04
Co XX	94.9300	$2s^2 2p^4 \ ^3P_2 - 2s 2p^5 \ ^3P_1$	7.0	5.65e+02
Fe XXI	94.9310	$2s^2 2p^2 \ ^3P_1 - 2s 2p^3 \ ^1D_2$	7.1	1.45e+02
Co XXIII	95.1710	$2s^2 2p \ ^2P_{1/2} - 2s 2p^2 \ ^2P_{1/2}$	7.1	3.87e+03
Fe XVII	95.2625	$2s^2 2p^5 3s \ ^3P_1 - 2s 2p^6 3s \ ^1S_0$	6.9	7.94e+03
S XIV	95.3863	$1s^2 3d \ ^2D_{3/2} - 1s^2 4f \ ^2F_{5/2}$	7.0	6.30e+02
Mg VI	95.4829	$2s^2 2p^3 \ ^4S_{3/2} - 2s^2 2p^2 \ (^3P) 3d \ ^4P_{5/2}$	5.7	1.86e+02
S XIV	95.4884	$1s^2 3d \ ^2D_{5/2} - 1s^2 4f \ ^2F_{7/2}$	7.0	8.95e+02

Table 1: (continued)

Ion	$\lambda$ (Å)	Transition	$T_{\max}$	Int
Si XIV	95.7112	$3p^2 P_{3/2} - 4s^2 S_{1/2}$	7.2	1.65e+02
Ni XXI	95.8637	$2s^2 2p^4 {}^3P_2 - 2s 2p^5 {}^3P_2$	7.0	2.42e+04
Fe XX	95.9207	$2s^2 2p^3 {}^4S_{3/2} - 2s 2p^4 {}^2D_{3/2}$	7.0	1.68e+03
Ni XXII	95.9810	$2s^2 2p^3 {}^2P_{1/2} - 2s 2p^4 {}^2S_{1/2}$	7.0	3.90e+02
Fe X	96.1210	$3s^2 3p^5 {}^2P_{3/2} - 3s^2 3p^4 ({}^3P) 4s {}^2P_{3/2}$	6.0	2.80e+02
Fe XVIII	96.1711	$2s^2 2p^4 ({}^3P) 3s {}^4P_{5/2} - 2s 2p^5 ({}^3P) 3s {}^2P_{3/2}$	6.9	1.62e+02
Mn XVIII	96.2398	$2s^2 2p^4 {}^1D_2 - 2s 2p^5 {}^1P_1$	6.9	1.68e+02
S XIV	96.3690	$1s^2 3p {}^2P_{1/2} - 1s^2 4s {}^2S_{1/2}$	7.0	2.84e+02
Fe XIX *	96.4886	$2s^2 2p^3 ({}^4S) 4p {}^3P_2 - 2s^2 2p^3 ({}^4S) 5d {}^3D_3$	7.0	1.40e+02
S XIV	96.7915	$1s^2 3p {}^2P_{3/2} - 1s^2 4s {}^2S_{1/2}$	7.0	5.80e+02
Ni XXI	96.8029	$2s^2 2p^4 {}^3P_0 - 2s 2p^5 {}^3P_1$	7.0	3.55e+03
Co XXII	96.8840	$2s^2 2p^2 {}^3P_2 - 2s 2p^3 {}^3S_1$	7.1	7.62e+02
Fe XVIII *	96.9058	$2s^2 2p^4 ({}^3P) 4s {}^2P_{3/2} - 2s^2 2p^4 ({}^3P) 5p {}^2P_{3/2}$	6.9	3.34e+02
Ni XXI	97.1253	$2s^2 2p^4 {}^1S_0 - 2s 2p^5 {}^1P_1$	7.0	1.51e+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
Fe XVII *	97.3208	$2s^2 2p^5 3d {}^3F_2 - 2s 2p^6 3d {}^1D_2$	6.9	1.31e+03
Zn XXV	97.4170	$2s^2 2p^2 {}^3P_0 - 2s 2p^3 {}^3D_1$	7.1	6.91e+02
Ne VII	97.4960	$2s^2 {}^1S_0 - 2s 3p {}^1P_1$	5.7	3.00e+02
Mn XX	97.5070	$2s^2 2p^2 {}^3P_0 - 2s 2p^3 {}^3S_1$	7.0	2.23e+02
Fe XXI	97.8641	$2s^2 2p^2 {}^3P_1 - 2s 2p^3 {}^3S_1$	7.1	1.35e+05
Fe XVII *	97.9392	$2s^2 2p^5 3d {}^3D_1 - 2s 2p^6 3d {}^3D_1$	6.9	2.03e+02
Fe XVII *	97.9394	$2s^2 2p^5 3d {}^3D_2 - 2s 2p^6 3d {}^1D_2$	6.9	1.40e+03
Fe XX	98.0735	$2s 2p^4 {}^2D_{3/2} - 2p^5 {}^2P_{1/2}$	7.0	3.84e+02
Ne VIII	98.1156	$1s^2 2p {}^2P_{1/2} - 1s^2 3d {}^2D_{3/2}$	6.7	1.13e+03
Ni XXII	98.1810	$2s^2 2p^3 {}^2D_{3/2} - 2s 2p^4 {}^2D_{3/2}$	7.0	2.64e+03
Ne VI	98.2570	$2s^2 2p {}^2P_{3/2} - 2s^2 4d {}^2D_{5/2}$	5.7	2.33e+02
Ne VIII	98.2601	$1s^2 2p {}^2P_{3/2} - 1s^2 3d {}^2D_{5/2}$	6.7	2.02e+03
Ne VIII	98.2746	$1s^2 2p {}^2P_{3/2} - 1s^2 3d {}^2D_{3/2}$	6.7	2.25e+02
Fe XX *	98.3057	$2s^2 2p^2 ({}^3P) 3s {}^4P_{5/2} - 2s 2p^3 ({}^3S) 3s {}^4S_{3/2}$	7.0	5.58e+02
Fe XX	98.3552	$2s^2 2p^3 {}^2P_{3/2} - 2s 2p^4 {}^2P_{1/2}$	7.0	5.25e+03
Fe XXI	98.3931	$2s^2 2p^2 {}^1D_2 - 2s 2p^3 {}^1P_1$	7.1	1.24e+04
Fe XVIII *	98.6355	$2s^2 2p^4 ({}^3P) 3d {}^4F_{9/2} - 2s 2p^5 ({}^3P) 3d {}^4D_{7/2}$	6.9	1.48e+03
Fe XXI	98.6693	$2s 2p^3 {}^3D_3 - 2p^4 {}^1D_2$	7.1	1.41e+02
Fe XX *	98.6799	$2s^2 2p^2 ({}^3P) 3d {}^4F_{9/2} - 2s 2p^3 ({}^3S) 3d {}^4D_{7/2}$	7.0	1.45e+02
Fe XVIII	98.7168	$2s^2 2p^4 ({}^3P) 3s {}^2P_{3/2} - 2s 2p^5 ({}^3P) 3s {}^2P_{3/2}$	6.9	1.48e+02
Co XIX	99.0200	$2s^2 2p^5 {}^2P_{1/2} - 2s 2p^6 {}^2S_{1/2}$	6.9	3.13e+02
Fe XXI	99.0216	$2s^2 2p^2 {}^3P_2 - 2s 2p^3 {}^1D_2$	7.1	2.87e+03
N VII	99.0928	$2s {}^2S_{1/2} - 4p {}^2P_{3/2}$	7.1	1.70e+02
Fe XVII	99.6054	$2s^2 2p^5 3d {}^1F_3 - 2s 2p^6 3d {}^1D_2$	6.9	3.82e+03
Fe XVII *	99.7380	$2s^2 2p^5 4s {}^3P_1 - 2s 2p^6 4s {}^1S_0$	6.9	3.20e+02
Fe XVII *	99.7683	$2s^2 2p^5 3s {}^3P_0 - 2s 2p^6 3s {}^3S_1$	6.9	2.87e+02
Fe XVIII *	99.8030	$2s^2 2p^4 ({}^3P) 3d {}^2F_{7/2} - 2s 2p^5 ({}^3P) 3d {}^2D_{5/2}$	6.9	1.28e+03
Fe XVII *	99.8605	$2s^2 2p^5 3p {}^3D_1 - 2s 2p^6 3p {}^3P_1$	6.9	1.52e+02
Fe XVIII *	99.8662	$2s^2 2p^4 ({}^3P) 3d {}^2F_{7/2} - 2s 2p^5 ({}^3P) 3d {}^4D_{7/2}$	6.9	3.90e+02
Mn XVII	100.0000	$2s^2 2p^5 {}^2P_{3/2} - 2s 2p^6 {}^2S_{1/2}$	6.8	1.04e+03
Co XXII	100.1260	$2s^2 2p^2 {}^3P_0 - 2s 2p^3 {}^3P_1$	7.1	1.42e+02
Ni XXII	100.1310	$2s^2 2p^3 {}^2P_{3/2} - 2s 2p^4 {}^2P_{3/2}$	7.0	1.90e+02
Fe XVII *	100.2296	$2s^2 2p^5 3p {}^3D_1 - 2s 2p^6 3p {}^3P_0$	6.9	1.64e+02
Ni XXI	100.2448	$2s^2 2p^4 {}^3P_1 - 2s 2p^5 {}^3P_1$	7.0	2.57e+03

Table 1: (continued)

Ion	$\lambda$ (Å)	Transition	$T_{\max}$	Int
Fe XVII *	100.5203	$2s^2 2p^5 3p \ ^3P_1 - 2s 2p^6 3p \ ^3P_2$	6.9	2.54e+02
Fe XVIII *	100.6738	$2s^2 2p^4 \ (^3P) 3d \ ^4D_{7/2} - 2s 2p^5 \ (^3P) 3d \ ^2F_{7/2}$	6.9	2.03e+02
Fe XXII	100.7747	$2s^2 2p \ ^2P_{1/2} - 2s 2p^2 \ ^2P_{3/2}$	7.1	4.26e+04
Fe XVII *	100.8087	$2s^2 2p^5 3s \ ^3P_1 - 2s 2p^6 3s \ ^3S_1$	6.9	4.41e+02
Fe XVII *	100.8471	$2s^2 2p^5 3p \ ^1D_2 - 2s 2p^6 3p \ ^3P_2$	6.9	3.95e+02
Fe XIX	101.5498	$2s^2 2p^4 \ ^3P_2 - 2s 2p^5 \ ^3P_1$	7.0	1.53e+05
Fe XVII *	101.7306	$2s^2 2p^5 3d \ ^3F_2 - 2s 2p^6 3d \ ^3D_2$	6.9	2.82e+02
Fe XX	101.8189	$2s^2 2p^3 \ ^2P_{1/2} - 2s 2p^4 \ ^2P_{3/2}$	7.0	4.28e+03
Fe XVII *	101.8459	$2s^2 2p^5 3d \ ^3F_2 - 2s 2p^6 3d \ ^3D_1$	6.9	3.34e+02
Co XX	101.8810	$2s^2 2p^4 \ ^3P_2 - 2s 2p^5 \ ^3P_2$	7.0	1.67e+03
Cr XVII	101.9289	$2s^2 2p^4 \ ^1D_2 - 2s 2p^5 \ ^1P_1$	6.8	2.57e+02
Ni XXIV	102.1029	$2s^2 2p \ ^2P_{3/2} - 2s 2p^2 \ ^2P_{3/2}$	7.1	7.90e+03
Fe XVIII *	102.1817	$2s^2 2p^4 \ (^3P) 3d \ ^4D_{5/2} - 2s 2p^5 \ (^3P) 3d \ ^4F_{5/2}$	6.9	1.54e+02
Fe XVII *	102.1919	$2s^2 2p^5 3d \ ^3D_2 - 2s 2p^6 3d \ ^3D_3$	6.9	1.99e+02
Fe XVIII *	102.2012	$2s^2 2p^4 \ (^3P) 3d \ ^4D_{7/2} - 2s 2p^5 \ (^3P) 3d \ ^4F_{5/2}$	6.9	3.04e+02
Fe XXII	102.2133	$2s^2 2p \ ^2P_{1/2} - 2s 2p^2 \ ^2S_{1/2}$	7.1	4.62e+03
Fe XXI	102.2172	$2s^2 2p^2 \ ^3P_2 - 2s 2p^3 \ ^3S_1$	7.1	3.08e+05
O VIII	102.3478	$2p \ ^2P_{1/2} - 3d \ ^2D_{3/2}$	7.0	2.26e+03
O VIII	102.3554	$2s \ ^2S_{1/2} - 3p \ ^2P_{3/2}$	7.1	5.51e+03
O VIII	102.3921	$2p \ ^2P_{1/2} - 3s \ ^2S_{1/2}$	7.1	3.38e+03
O VIII	102.4021	$2s \ ^2S_{1/2} - 3p \ ^2P_{1/2}$	7.1	3.13e+03
Fe XVIII	102.4767	$2s^2 2p^4 \ (^3P) 3s \ ^4P_{5/2} - 2s 2p^5 \ (^3P) 3s \ ^4P_{3/2}$	6.9	2.29e+02
O VIII	102.4899	$2p \ ^2P_{3/2} - 3d \ ^2D_{5/2}$	7.0	4.04e+03
O VIII	102.5055	$2p \ ^2P_{3/2} - 3d \ ^2D_{3/2}$	7.0	4.50e+02
O VIII	102.5499	$2p \ ^2P_{3/2} - 3s \ ^2S_{1/2}$	7.1	6.73e+03
Fe XVII *	102.6721	$2s^2 2p^5 3d \ ^1F_3 - 2s 2p^6 3d \ ^3D_3$	6.9	4.49e+02
Fe XVII *	102.8889	$2s^2 2p^5 3d \ ^1F_3 - 2s 2p^6 3d \ ^3D_2$	6.9	1.48e+02
Ne VIII	102.9107	$1s^2 2p \ ^2P_{1/2} - 1s^2 3s \ ^2S_{1/2}$	6.7	5.50e+02
Ne VIII	103.0857	$1s^2 2p \ ^2P_{3/2} - 1s^2 3s \ ^2S_{1/2}$	6.7	1.10e+03
Co XX	103.1550	$2s^2 2p^4 \ ^3P_0 - 2s 2p^5 \ ^3P_1$	7.0	2.51e+02
Ni XXIII	103.2220	$2s^2 2p^2 \ ^3P_1 - 2s 2p^3 \ ^3P_1$	7.1	9.65e+03
Fe XVIII *	103.2514	$2s^2 2p^4 \ (^3P) 3d \ ^4F_{9/2} - 2s 2p^5 \ (^3P) 3d \ ^2F_{7/2}$	6.9	1.17e+03
Ni XXII	103.3090	$2s^2 2p^3 \ ^4S_{3/2} - 2s 2p^4 \ ^4P_{1/2}$	7.0	1.63e+04
Fe XIX *	103.3734	$2s^2 2p^3 \ (^2P) 3d \ ^3F_4 - 2s 2p^4 \ (^2P) 3d \ ^3F_4$	7.0	1.95e+02
Mn XX	103.5370	$2s^2 2p^2 \ ^3P_1 - 2s 2p^3 \ ^3S_1$	7.0	5.65e+02
Fe IX	103.5660	$3s^2 3p^6 \ ^1S_0 - 3s^2 3p^5 4s \ ^1P_1$	5.9	7.63e+02
Fe XVII *	103.6509	$2s^2 2p^5 4s \ ^1P_1 - 2s^2 2p^5 5p \ ^1S_0$	6.9	3.34e+02
Ni XXIV	103.6755	$2s^2 2p \ ^2P_{3/2} - 2s 2p^2 \ ^2P_{1/2}$	7.1	7.03e+02
Fe XXI	103.7596	$2s 2p^3 \ ^3D_1 - 2p^4 \ ^3P_1$	7.1	2.89e+02
Fe XXI	103.8331	$2s 2p^3 \ ^3D_2 - 2p^4 \ ^3P_1$	7.1	4.29e+02
Fe XVIII	103.9370	$2s^2 2p^5 \ ^2P_{1/2} - 2s 2p^6 \ ^2S_{1/2}$	6.9	9.52e+04
Cr XIX	104.2120	$2s^2 2p^2 \ ^3P_0 - 2s 2p^3 \ ^3S_1$	6.9	4.54e+02
Fe XXI	104.2722	$2s 2p^3 \ ^3D_1 - 2p^4 \ ^3P_0$	7.1	1.42e+03
Fe XVIII *	104.4466	$2s^2 2p^4 \ (^3P) 3d \ ^4D_{7/2} - 2s 2p^5 \ (^3P) 3d \ ^4F_{7/2}$	6.9	3.49e+02
Zn XXIV	104.5429	$2s^2 2p^3 \ ^4S_{3/2} - 2s 2p^4 \ ^4P_{5/2}$	7.1	2.86e+02
Fe XVII *	104.5584	$2s^2 2p^5 4s \ ^3P_1 - 2s^2 2p^5 5p \ ^3P_0$	6.9	2.31e+02
Fe XVIII *	104.6008	$2s^2 2p^4 \ (^3P) 3d \ ^2F_{7/2} - 2s 2p^5 \ (^3P) 3d \ ^2F_{7/2}$	6.9	6.79e+02
Fe XVIII	104.6534	$2s^2 2p^4 \ (^3P) 3d \ ^2F_{5/2} - 2s 2p^5 \ (^3P) 3d \ ^4D_{5/2}$	6.9	4.09e+02
Zn XXVII	104.6740	$2s^2 \ ^1S_0 - 2s 2p \ ^1P_1$	7.3	1.02e+03

Table 1: (continued)

Ion	$\lambda$ (Å)	Transition	$T_{\max}$	Int
Fe XVIII *	104.8850	$2s^2 2p^4 ({}^3P) 3s {}^4P_{5/2} - 2s 2p^5 ({}^3P) 3s {}^4P_{5/2}$	6.9	1.01e+03
Fe XVIII *	104.9055	$2s^2 2p^4 ({}^3P) 3d {}^4D_{7/2} - 2s 2p^5 ({}^3P) 3d {}^4P_{5/2}$	6.9	3.05e+02
Cr XVIII	104.9850	$2s^2 2p^3 {}^2D_{5/2} - 2s 2p^4 {}^2P_{3/2}$	6.9	1.98e+02
Fe IX	105.2080	$3s^2 3p^6 {}^1S_0 - 3s^2 3p^5 4s {}^3P_1$	5.9	4.58e+02
Fe XVII	105.3859	$2s^2 2p^5 3d {}^1P_1 - 2s 2p^6 3d {}^1D_2$	6.9	7.48e+02
Si XIII	105.6307	$1s 3s {}^3S_1 - 1s 4p {}^3P_2$	7.1	1.67e+02
Co XX	105.7210	$2s^2 2p^4 {}^3P_1 - 2s 2p^5 {}^3P_1$	7.0	1.88e+02
Fe XVIII	106.0280	$2s^2 2p^4 ({}^3P) 3s {}^4P_{3/2} - 2s 2p^5 ({}^3P) 3s {}^2P_{3/2}$	6.9	2.42e+02
Ni XXII	106.0450	$2s^2 2p^3 {}^4S_{3/2} - 2s 2p^4 {}^4P_{3/2}$	7.0	3.16e+04
Fe XIX	106.1055	$2s^2 2p^4 {}^1S_0 - 2s 2p^5 {}^1P_1$	7.0	3.03e+03
Ne VII	106.1900	$2s 2p {}^3P_2 - 2s 3d {}^3D_3$	5.7	2.65e+02
Fe XVIII *	106.2074	$2s^2 2p^4 ({}^3P) 3p {}^4D_{7/2} - 2s 2p^5 ({}^3P) 3p {}^4D_{7/2}$	6.9	9.15e+02
Fe XVIII *	106.2857	$2s^2 2p^4 ({}^3P) 3p {}^4P_{3/2} - 2s 2p^5 ({}^3P) 3p {}^4S_{3/2}$	6.9	2.54e+02
Fe XIX	106.3177	$2s^2 2p^4 {}^3P_1 - 2s 2p^5 {}^3P_0$	7.0	4.24e+03
Fe XVIII *	106.4856	$2s^2 2p^4 ({}^3P) 3d {}^4F_{5/2} - 2s 2p^5 ({}^3P) 3d {}^4D_{7/2}$	6.9	2.53e+02
Fe XVIII *	106.5787	$2s^2 2p^4 ({}^3P) 3d {}^4F_{5/2} - 2s 2p^5 ({}^3P) 3d {}^4D_{5/2}$	6.9	3.95e+02
Cr XVI	106.6170	$2s^2 2p^5 {}^2P_{3/2} - 2s 2p^6 {}^2S_{1/2}$	6.7	1.53e+03
Fe XVIII *	106.6189	$2s^2 2p^4 ({}^3P) 3d {}^4D_{5/2} - 2s 2p^5 ({}^3P) 3d {}^4P_{3/2}$	6.9	1.49e+02
Fe XVIII *	106.6970	$2s^2 2p^4 ({}^3P) 3p {}^4P_{5/2} - 2s 2p^5 ({}^3P) 3p {}^4S_{3/2}$	6.9	1.60e+02
Fe XXII	106.8397	$2s 2p^2 {}^4P_{3/2} - 2p^3 {}^2D_{3/2}$	7.1	8.36e+02
Fe XX	106.9617	$2s^2 2p^3 {}^2P_{1/2} - 2s 2p^4 {}^2S_{1/2}$	7.0	8.78e+03
Fe XVIII *	107.6503	$2s^2 2p^4 ({}^3P) 3d {}^4F_{7/2} - 2s 2p^5 ({}^3P) 3d {}^4D_{7/2}$	6.9	5.75e+02
Fe XVIII *	107.7455	$2s^2 2p^4 ({}^3P) 3d {}^4F_{7/2} - 2s 2p^5 ({}^3P) 3d {}^4D_{5/2}$	6.9	4.70e+02
Fe VIII	107.8680	$3p^6 3d {}^2D_{3/2} - 3p^6 5f {}^2F_{5/2}$	5.7	1.67e+02
Mn XX	107.9030	$2s^2 2p^2 {}^3P_2 - 2s 2p^3 {}^3S_1$	7.0	1.23e+03
Co XXIII	108.0640	$2s^2 2p {}^2P_{3/2} - 2s 2p^2 {}^2P_{3/2}$	7.1	5.36e+02
Fe VIII	108.0770	$3p^6 3d {}^2D_{5/2} - 3p^6 5f {}^2F_{7/2}$	5.7	1.75e+02
Fe XIX *	108.0894	$2s^2 2p^3 ({}^2D) 3d {}^3F_4 - 2s 2p^4 ({}^2D) 3d {}^3F_4$	7.0	2.72e+02
Fe XVIII *	108.1157	$2s^2 2p^4 ({}^3P) 3s {}^2P_{3/2} - 2s 2p^5 ({}^3P) 3s {}^4P_{5/2}$	6.9	1.41e+02
Fe XXI	108.1177	$2s^2 2p^2 {}^3P_0 - 2s 2p^3 {}^3P_1$	7.1	7.20e+04
Mn XXI	108.1510	$2s^2 2p {}^2P_{1/2} - 2s 2p^2 {}^2P_{3/2}$	7.0	1.70e+02
Fe XIX	108.3555	$2s^2 2p^4 {}^3P_2 - 2s 2p^5 {}^3P_2$	7.0	4.52e+05
Fe XVIII *	108.5727	$2s^2 2p^4 ({}^3P) 3d {}^4F_{9/2} - 2s 2p^5 ({}^3P) 3d {}^4F_{9/2}$	6.9	8.71e+02
Fe XVIII *	108.6796	$2s^2 2p^4 ({}^3P) 3d {}^2F_{7/2} - 2s 2p^5 ({}^3P) 3d {}^4F_{7/2}$	6.9	3.46e+02
Mn XVIII	108.7531	$2s^2 2p^4 {}^3P_2 - 2s 2p^5 {}^3P_1$	6.9	6.33e+02
Fe XX	108.8028	$2s^2 2p^3 {}^2P_{3/2} - 2s 2p^4 {}^2P_{3/2}$	7.0	4.31e+03
Ni XXIII	109.0950	$2s^2 2p^2 {}^3P_2 - 2s 2p^3 {}^3P_1$	7.1	1.13e+03
Fe XVIII *	109.2234	$2s^2 2p^4 ({}^3P) 3d {}^2F_{5/2} - 2s 2p^5 ({}^3P) 3d {}^2F_{7/2}$	6.9	1.74e+02
Ni XXI	109.3065	$2s^2 2p^4 {}^3P_1 - 2s 2p^5 {}^3P_2$	7.0	5.37e+03
Mn XVII	109.3650	$2s^2 2p^5 {}^2P_{1/2} - 2s 2p^6 {}^2S_{1/2}$	6.8	3.66e+02
Fe XXII	109.5000	$2s 2p^2 {}^4P_{5/2} - 2p^3 {}^2D_{5/2}$	7.1	5.22e+02
Fe XX	109.6458	$2s 2p^4 {}^2D_{3/2} - 2p^5 {}^2P_{3/2}$	7.0	3.85e+02
Cr XIX	109.6770	$2s^2 2p^2 {}^3P_1 - 2s 2p^3 {}^3S_1$	6.9	1.18e+03
Fe XIX *	109.7228	$2s^2 2p^3 ({}^2D) 3d {}^1G_4 - 2s 2p^4 ({}^2D) 3d {}^3F_4$	7.0	1.40e+02
Mn XXI	109.7940	$2s^2 2p {}^2P_{1/2} - 2s 2p^2 {}^2P_{1/2}$	7.0	5.97e+03
Fe XIX	109.9519	$2s^2 2p^4 {}^3P_0 - 2s 2p^5 {}^3P_1$	7.0	7.16e+04
Co XXII	110.0960	$2s^2 2p^2 {}^3P_1 - 2s 2p^3 {}^3P_1$	7.1	5.67e+02
Fe XIX *	110.5222	$2s^2 2p^3 ({}^2D) 3d {}^3G_4 - 2s 2p^4 ({}^2D) 3d {}^3G_4$	7.0	2.85e+02
Fe XX	110.6269	$2s^2 2p^3 {}^2D_{3/2} - 2s 2p^4 {}^2D_{3/2}$	7.0	3.88e+04

Table 1: (continued)

Ion	$\lambda$ (Å)	Transition	$T_{\max}$	Int
Co XXI	110.7110	$2s^2 2p^3 4S_{3/2} - 2s 2p^4 4P_{1/2}$	7.0	9.46e+02
Fe XVIII *	111.0235	$2s^2 2p^4 (3P) 3d 2F_{5/2} - 2s 2p^5 (3P) 3d 4F_{5/2}$	6.9	1.59e+02
Ne VI	111.1620	$2s^2 2p 2P_{3/2} - 2s 2p (3P) 3p 2D_{5/2}$	5.7	1.42e+02
Fe XVII *	111.3816	$2s 2p^6 4p 1P_1 - 2s 2p^6 5d 1D_2$	6.9	1.93e+02
Mg VI	111.5526	$2s^2 2p^3 4S_{3/2} - 2s^2 2p^2 (3P) 3s 4P_{5/2}$	5.7	1.51e+02
Fe XX	111.5790	$2s 2p^4 2D_{5/2} - 2p^5 2P_{3/2}$	7.0	9.63e+02
Fe XIX	111.6947	$2s^2 2p^4 3P_1 - 2s 2p^5 3P_1$	7.0	5.50e+04
Fe XXI *	111.7054	$2s^2 2p 3s 3P_1 - 2s 2p^2 (2P) 3s 3P_0$	7.1	1.51e+02
Fe XVII *	111.7078	$2s^2 2p^5 4p 3D_3 - 2s^2 2p^5 5d 3F_4$	6.9	1.53e+02
Ni XXIII	111.8290	$2s^2 2p^2 3P_0 - 2s 2p^3 3D_1$	7.1	7.79e+04
Fe XVIII *	111.8856	$2s^2 2p^4 (3P) 3d 4F_{5/2} - 2s 2p^5 (3P) 3d 2F_{7/2}$	6.9	1.42e+02
Fe XXII	112.2034	$2s 2p^2 2D_{3/2} - 2p^3 2P_{3/2}$	7.1	3.79e+02
Fe XXI	112.4662	$2s^2 2p^2 1S_0 - 2s 2p^3 1P_1$	7.1	2.83e+03
Si XIII	112.4722	$1s 3p 1P_1 - 1s 4s 1S_0$	7.1	1.49e+02
Fe XVIII *	113.1721	$2s^2 2p^4 (3P) 3d 4F_{7/2} - 2s 2p^5 (3P) 3d 2F_{7/2}$	6.9	2.73e+02
Fe XXI	113.2913	$2s^2 2p^2 1D_2 - 2s 2p^3 1D_2$	7.1	1.45e+04
Fe XX	113.3489	$2s^2 2p^3 2D_{5/2} - 2s 2p^4 2D_{5/2}$	7.0	2.36e+04
Co XXI	113.6870	$2s^2 2p^3 4S_{3/2} - 2s 2p^4 4P_{3/2}$	7.0	1.81e+03
Fe XVIII *	113.7753	$2s^2 2p^4 (3P) 3d 4F_{5/2} - 2s 2p^5 (3P) 3d 4F_{5/2}$	6.9	2.53e+02
Fe XVIII	113.8310	$2s^2 2p^4 (3P) 3d 2D_{5/2} - 2s 2p^5 (3P) 3d 4D_{7/2}$	6.9	1.55e+02
Cr XIX	114.0100	$2s^2 2p^2 3P_2 - 2s 2p^3 3S_1$	6.9	2.47e+03
Fe XXII	114.4101	$2s^2 2p 2P_{3/2} - 2s 2p^2 2P_{3/2}$	7.1	2.65e+05
Co XX	114.4150	$2s^2 2p^4 3P_1 - 2s 2p^5 3P_2$	7.0	3.88e+02
Fe XX	114.6957	$2s^2 2p^3 2P_{3/2} - 2s 2p^4 2S_{1/2}$	7.0	5.86e+02
Fe XXI	114.9792	$2s 2p^3 3D_1 - 2p^4 3P_2$	7.1	2.45e+02
Fe XXI	115.0695	$2s 2p^3 3D_2 - 2p^4 3P_2$	7.1	9.70e+02
Fe XXI	115.1396	$2s^2 2p^2 3P_1 - 2s 2p^3 3P_2$	7.1	6.33e+02
Fe XXII	115.1472	$2s 2p^2 2D_{5/2} - 2p^3 2P_{3/2}$	7.1	1.06e+03
Cr XVI	115.3340	$2s^2 2p^5 2P_{1/2} - 2s 2p^6 2S_{1/2}$	6.7	5.48e+02
Mn XVIII	115.3653	$2s^2 2p^4 3P_2 - 2s 2p^5 3P_2$	6.9	1.95e+03
Fe XIX	115.3964	$2s 2p^5 1P_1 - 2p^6 1S_0$	6.9	2.71e+03
Fe XVIII *	115.6095	$2s^2 2p^4 (3P) 4p 4D_{1/2} - 2s^2 2p^4 (3P) 5s 4P_{1/2}$	6.9	2.16e+02
O VI	115.8217	$1s^2 2s 2S_{1/2} - 1s^2 4p 2P_{3/2}$	5.5	3.68e+02
O VI	115.8303	$1s^2 2s 2S_{1/2} - 1s^2 4p 2P_{1/2}$	5.5	1.89e+02
Fe XVIII *	115.9384	$2s^2 2p^4 (3P) 3d 4P_{5/2} - 2s 2p^5 (3P) 3d 2F_{7/2}$	6.9	1.69e+02
Cr XX	116.0780	$2s^2 2p 2P_{1/2} - 2s 2p^2 2P_{3/2}$	7.0	4.44e+02
Fe XXII	116.2678	$2s^2 2p 2P_{3/2} - 2s 2p^2 2S_{1/2}$	7.1	6.55e+04
Cr XVII	116.5987	$2s^2 2p^4 3P_2 - 2s 2p^5 3P_1$	6.8	1.11e+03
Ne VII	116.6930	$2s 2p 1P_1 - 2s 3d 1D_2$	5.7	4.66e+02
Mn XX	116.7050	$2s^2 2p^2 3P_0 - 2s 2p^3 3P_1$	7.0	2.95e+02
Fe XVIII *	116.7638	$2s^2 2p^4 (3P) 3s 4P_{3/2} - 2s 2p^5 (3P) 3s 4P_{5/2}$	6.9	2.08e+02
Fe XVIII *	116.8512	$2s^2 2p^4 (3P) 4p 4D_{3/2} - 2s^2 2p^4 (3P) 5s 4P_{1/2}$	6.9	3.70e+02
Fe XVIII *	116.9226	$2s^2 2p^4 (3P) 3p 4D_{5/2} - 2s 2p^5 (3P) 3p 4D_{7/2}$	6.9	1.64e+02
Fe XXII	117.1543	$2s^2 2p 2P_{1/2} - 2s 2p^2 2P_{1/2}$	7.1	1.40e+06
Mn XVIII	117.2320	$2s^2 2p^4 3P_0 - 2s 2p^5 3P_1$	6.9	3.15e+02
Fe XXII	117.4898	$2s 2p^2 4P_{1/2} - 2p^3 4S_{3/2}$	7.1	9.39e+02
Fe XXI	117.4938	$2s^2 2p^2 1D_2 - 2s 2p^3 3S_1$	7.1	1.36e+03
Fe XXI	117.4996	$2s^2 2p^2 3P_1 - 2s 2p^3 3P_1$	7.1	2.44e+05
Si V	117.8540	$2p^6 1S_0 - 2p^5 3s 1P_1$	5.4	2.85e+02

Table 1: (continued)

Ion	$\lambda$ (Å)	Transition	$T_{\max}$	Int
Ni XXV	117.9105	$2s^2 1S_0 - 2s 2p 1P_1$	7.1	1.50e+05
Ni XXII	117.9180	$2s^2 2p^3 4S_{3/2} - 2s 2p^4 4P_{5/2}$	7.0	3.67e+04
Fe XIX *	117.9434	$2s^2 2p^3 (4S) 3d 5D_4 - 2s 2p^4 (4P) 3d 3F_4$	7.0	1.02e+03
Cr XX	117.9580	$2s^2 2p 2P_{1/2} - 2s 2p^2 2P_{1/2}$	7.0	1.36e+04
Mn XVIII	118.2432	$2s^2 2p^4 3P_1 - 2s 2p^5 3P_1$	6.9	2.46e+02
Ni XXIV	118.4739	$2s^2 2p 2P_{1/2} - 2s 2p^2 2D_{3/2}$	7.1	5.44e+04
Fe XXI	118.6444	$2s 2p^3 3D_3 - 2p^4 3P_2$	7.1	2.01e+03
Fe XX	118.6801	$2s^2 2p^3 4S_{3/2} - 2s 2p^4 4P_{1/2}$	7.0	3.48e+05
Fe XXI	118.6972	$2s^2 2p^2 3P_1 - 2s 2p^3 3P_0$	7.1	4.83e+03
Si V	118.9640	$2p^6 1S_0 - 2p^5 3s 3P_1$	5.4	1.60e+02
Si XII	119.6632	$1s^2 3s 2S_{1/2} - 1s^2 4p 2P_{3/2}$	7.0	3.86e+02
Si XII	119.8210	$1s^2 3s 2S_{1/2} - 1s^2 4p 2P_{1/2}$	7.0	2.00e+02
Co XXII	119.9400	$2s^2 2p^2 3P_0 - 2s 2p^3 3D_1$	7.1	4.04e+03
Fe XIX	119.9836	$2s^2 2p^4 3P_1 - 2s 2p^5 3P_2$	7.0	1.09e+05
Fe XXII	120.0128	$2s 2p^2 2D_{3/2} - 2p^3 2P_{1/2}$	7.1	4.27e+03
O VII	120.3328	$1s 2s 3S_1 - 1s 3p 3P_1$	6.4	3.01e+02
O VII	120.3328	$1s 2s 3S_1 - 1s 3p 3P_2$	6.4	7.12e+02
Ni XXI	120.3516	$2s^2 2p^4 1D_2 - 2s 2p^5 3P_2$	7.0	1.30e+03
Ni XXV	120.4673	$2s 2p 3P_2 - 2p^2 1D_2$	7.2	1.67e+02
Fe XIX *	120.9602	$2s^2 2p^3 (4S) 3s 5S_2 - 2s 2p^4 (4P) 3s 5P_2$	7.0	1.68e+02
Mn XXI	121.1790	$2s^2 2p 2P_{3/2} - 2s 2p^2 2P_{3/2}$	7.0	1.02e+03
Fe XXIII	121.2013	$2s 2p 3P_1 - 2p^2 1D_2$	7.1	1.16e+03
Fe XXI	121.2129	$2s^2 2p^2 3P_2 - 2s 2p^3 3P_2$	7.1	2.89e+04
Fe XX	121.8448	$2s^2 2p^3 4S_{3/2} - 2s 2p^4 4P_{3/2}$	7.0	6.63e+05
Fe XX	121.9868	$2s 2p^4 2P_{3/2} - 2p^5 2P_{1/2}$	7.0	2.38e+02
Ne VI	122.4880	$2s^2 2p 2P_{1/2} - 2s^2 3d 2D_{3/2}$	5.7	8.80e+02
Ne VI	122.6850	$2s^2 2p 2P_{3/2} - 2s^2 3d 2D_{3/2}$	5.7	1.76e+02
Ne VI	122.6850	$2s^2 2p 2P_{3/2} - 2s^2 3d 2D_{5/2}$	5.7	1.62e+03
Cr XVII	122.9718	$2s^2 2p^4 3P_2 - 2s 2p^5 3P_2$	6.8	3.26e+03
Fe XXI	123.3360	$2s 2p^3 3P_1 - 2p^4 3P_0$	7.1	6.32e+02
Ni XXII	123.3850	$2s^2 2p^3 2D_{3/2} - 2s 2p^4 4P_{1/2}$	7.0	3.64e+02
Fe XXI	123.8312	$2s^2 2p^2 3P_2 - 2s 2p^3 3P_1$	7.1	4.15e+04
Fe XIX *	124.3683	$2s^2 2p^3 (4S) 3d 5D_3 - 2s 2p^4 (4P) 3d 5F_4$	7.0	4.76e+02
Fe XIX *	124.8848	$2s^2 2p^3 (4S) 3d 5D_4 - 2s 2p^4 (4P) 3d 5F_4$	7.0	9.15e+02
Cr XVII	125.0637	$2s^2 2p^4 3P_0 - 2s 2p^5 3P_1$	6.8	5.85e+02
Co XXIV	125.1500	$2s^2 1S_0 - 2s 2p 1P_1$	7.1	8.92e+03
Co XXI	125.1610	$2s^2 2p^3 4S_{3/2} - 2s 2p^4 4P_{5/2}$	7.0	2.25e+03
Fe XXI	125.2995	$2s 2p^3 3P_2 - 2p^4 3P_1$	7.1	2.63e+02
Cr XVII	125.4284	$2s^2 2p^4 3P_1 - 2s 2p^5 3P_1$	6.8	4.62e+02
Mn XX	125.4490	$2s^2 2p^2 3P_1 - 2s 2p^3 3P_1$	7.0	9.01e+02
Fe XXII	125.7080	$2s 2p^2 4P_{3/2} - 2p^3 4S_{3/2}$	7.1	1.29e+03
Cr XIX	125.9780	$2s^2 2p^2 3P_0 - 2s 2p^3 3P_1$	6.9	6.72e+02
Mn XVIII	126.1016	$2s^2 2p^4 3P_1 - 2s 2p^5 3P_2$	6.9	4.91e+02
Ni XXIV	126.2987	$2s^2 2p 2P_{3/2} - 2s 2p^2 2S_{1/2}$	7.1	8.27e+02
Si XII	126.4609	$1s^2 3p 2P_{1/2} - 1s^2 4d 2D_{3/2}$	7.0	2.29e+02
Ni XXIII	126.5920	$2s^2 2p^2 3P_1 - 2s 2p^3 3D_2$	7.1	4.91e+02
Co XXIII	126.7840	$2s^2 2p 2P_{1/2} - 2s 2p^2 2D_{3/2}$	7.1	2.82e+03
Si XII	126.7960	$1s^2 3p 2P_{3/2} - 1s^2 4d 2D_{5/2}$	7.0	4.13e+02
Fe XXI	127.0402	$2s 2p^3 1P_1 - 2p^4 1S_0$	7.1	3.07e+02

Table 1: (continued)

Ion	$\lambda$ (Å)	Transition	$T_{\max}$	Int
Mn XIX	127.2810	$2s^2 2p^3 4S_{3/2} - 2s 2p^4 4P_{1/2}$	6.9	1.26e+03
Ni XXII	127.3070	$2s^2 2p^3 2D_{3/2} - 2s 2p^4 4P_{3/2}$	7.0	2.96e+02
Ni XXIII	127.4790	$2s^2 2p^2 3P_1 - 2s 2p^3 3D_1$	7.1	2.06e+03
Ne VII	127.6660	$2s 2p 1P_1 - 2s 3s 1S_0$	5.7	3.66e+02
Ti XVII	127.7780	$2s^2 2p^2 3P_2 - 2s 2p^3 3S_1$	6.8	1.92e+02
Fe XX	127.8358	$2s^2 2p^3 2P_{1/2} - 2s 2p^4 2D_{3/2}$	7.0	2.36e+03
Fe XIX *	127.8367	$2s^2 2p^3 (4S) 3p 5P_3 - 2s 2p^4 (4P) 3p 5D_4$	7.0	1.37e+03
Fe XIX	128.4062	$2s^2 2p^3 (4S) 3d 3D_3 - 2s 2p^4 (4P) 3d 3F_4$	7.0	1.10e+03
Fe XVII *	128.4225	$2s 2p^6 4p 1P_1 - 2s 2p^6 5s 1S_0$	6.9	2.24e+02
Cr XX	128.4420	$2s^2 2p 2P_{3/2} - 2s 2p^2 2P_{3/2}$	7.0	2.59e+03
Fe XIX *	128.6563	$2s^2 2p^3 (4S) 3s 5S_2 - 2s 2p^4 (4P) 3s 5P_3$	7.0	7.34e+02
Fe XXI	128.7526	$2s^2 2p^2 3P_0 - 2s 2p^3 3D_1$	7.1	1.41e+06
Ni XXV	128.8476	$2s 2p 3P_0 - 2p^2 3P_1$	7.1	2.85e+02
Fe XXII	129.1843	$2s 2p^2 2P_{1/2} - 2p^3 2P_{3/2}$	7.1	2.48e+02
O VI	129.7852	$1s^2 2p 2P_{1/2} - 1s^2 4d 2D_{3/2}$	5.5	2.02e+02
O VI	129.8714	$1s^2 2p 2P_{3/2} - 1s^2 4d 2D_{5/2}$	5.5	3.64e+02
Si XII	129.8906	$1s^2 3d 2D_{3/2} - 1s^2 4f 2F_{5/2}$	7.0	4.15e+02
Si XII	129.9801	$1s^2 3d 2D_{5/2} - 1s^2 4f 2F_{7/2}$	7.0	5.90e+02
Fe XIX *	130.0111	$2s^2 2p^3 (4S) 3p 5P_2 - 2s 2p^4 (4P) 3p 5P_3$	7.0	2.43e+02
Fe XIX *	130.0791	$2s^2 2p^3 (4S) 3d 5D_4 - 2s 2p^4 (4P) 3d 5F_5$	7.0	9.58e+02
Ne VI	130.2630	$2s 2p^2 2D_{5/2} - 2s 2p (3P) 3d 2F_{7/2}$	5.7	1.50e+02
Fe XVII *	130.4307	$2s^2 2p^5 4d 3D_1 - 2s^2 2p^5 5f 1D_2$	6.9	1.59e+02
Mn XIX	130.5780	$2s^2 2p^3 4S_{3/2} - 2s 2p^4 4P_{3/2}$	6.9	2.41e+03
Fe VIII	130.9410	$3p^6 3d 2D_{3/2} - 3p^6 4f 2F_{5/2}$	5.7	6.92e+02
Ni XXV	130.9928	$2s 2p 1P_1 - 2p^2 1S_0$	7.2	2.20e+02
Fe VIII	131.2400	$3p^6 3d 2D_{5/2} - 3p^6 4f 2F_{7/2}$	5.7	1.07e+03
Si XII	131.5515	$1s^2 3p 2P_{1/2} - 1s^2 4s 2S_{1/2}$	7.0	2.02e+02
Fe XX	131.6887	$2s 2p^4 2S_{1/2} - 2p^5 2P_{3/2}$	7.0	1.71e+02
Mn XX	131.9160	$2s^2 2p^2 3P_2 - 2s 2p^3 3P_1$	7.0	2.10e+02
Si XII	131.9664	$1s^2 3p 2P_{3/2} - 1s^2 4s 2S_{1/2}$	7.0	4.10e+02
O VI	132.3124	$1s^2 2p 2P_{3/2} - 1s^2 4s 2S_{1/2}$	5.5	1.65e+02
Fe XIX	132.6196	$2s^2 2p^4 1D_2 - 2s 2p^5 3P_2$	7.0	2.02e+04
Fe XIX *	132.6452	$2s^2 2p^3 (4S) 3d 5D_1 - 2s 2p^4 (4P) 3d 5D_2$	7.0	1.84e+02
Cr XVII	132.8339	$2s^2 2p^4 3P_1 - 2s 2p^5 3P_2$	6.8	8.50e+02
Fe XX	132.8405	$2s^2 2p^3 4S_{3/2} - 2s 2p^4 4P_{5/2}$	7.0	8.64e+05
O VII	132.8749	$1s 2p 3P_2 - 1s 3s 3S_1$	6.4	2.17e+02
Fe XXIII	132.9065	$2s^2 1S_0 - 2s 2p 1P_1$	7.1	3.57e+06
N VII	133.7406	$2s 2S_{1/2} - 3p 2P_{3/2}$	7.1	3.65e+02
Fe XIX *	133.7547	$2s^2 2p^3 (4S) 3d 5D_3 - 2s 2p^4 (4P) 3d 5D_3$	7.0	2.40e+02
N VII	133.7767	$2p 2P_{1/2} - 3s 2S_{1/2}$	7.0	2.06e+02
N VII	133.7872	$2s 2S_{1/2} - 3p 2P_{1/2}$	7.1	2.10e+02
Fe XIX *	133.8400	$2s^2 2p^3 (4S) 3d 5D_2 - 2s 2p^4 (4P) 3d 5D_3$	7.0	2.81e+02
Fe XIX *	133.8513	$2s^2 2p^3 (4S) 3d 5D_3 - 2s 2p^4 (4P) 3d 5D_4$	7.0	3.20e+02
N VII	133.8745	$2p 2P_{3/2} - 3d 2D_{5/2}$	7.0	2.39e+02
N VII	133.9344	$2p 2P_{3/2} - 3s 2S_{1/2}$	7.0	4.10e+02
Cr XIX	134.0520	$2s^2 2p^2 3P_1 - 2s 2p^3 3P_1$	6.9	1.80e+03
Fe XIX *	134.4498	$2s^2 2p^3 (4S) 3d 5D_4 - 2s 2p^4 (4P) 3d 5D_4$	7.0	4.02e+02
Co XXII	134.5350	$2s^2 2p^2 3P_1 - 2s 2p^3 3D_1$	7.1	1.68e+02
Fe XXII	134.6925	$2s 2p^2 4P_{5/2} - 2p^3 4S_{3/2}$	7.1	1.55e+03

Table 1: (continued)

Ion	$\lambda$ (Å)	Transition	$T_{\max}$	Int
C VI	134.9125	$2s^2 2S_{1/2} - 4p^2 2P_{3/2}$	7.1	2.67e+02
C VI	134.9233	$2s^2 2S_{1/2} - 4p^2 2P_{1/2}$	7.1	1.55e+02
C VI	134.9906	$2p^2 2P_{3/2} - 4d^2 2D_{5/2}$	7.1	1.51e+02
C VI	135.0044	$2p^2 2P_{3/2} - 4s^2 2S_{1/2}$	7.1	1.63e+02
Fe XXII	135.7912	$2s^2 2p^2 2P_{1/2} - 2s 2p^2 2D_{3/2}$	7.1	1.19e+06
Ni XXV	135.9470	$2s 2p^3 3P_1 - 2p^2 3P_1$	7.1	1.66e+02
Fe XXII	135.9966	$2s^2 2p^2 2P_{3/2} - 2s 2p^2 2P_{1/2}$	7.1	2.12e+03
Fe XX	136.0521	$2s^2 2p^3 2P_{3/2} - 2s 2p^4 2D_{5/2}$	7.0	3.59e+03
Ne VI	136.3480	$2s 2p^2 4P_{5/2} - 2s 2p (3P) 3s 4P_{5/2}$	5.7	2.01e+02
Fe XXIII	136.5317	$2s 2p^3 3P_2 - 2p^2 1D_2$	7.1	1.04e+04
Ni XXIII	136.5570	$2s^2 2p^2 3P_2 - 2s 2p^3 3D_1$	7.1	6.80e+02
Cr XVIII	136.5950	$2s^2 2p^3 4S_{3/2} - 2s 2p^4 4P_{1/2}$	6.9	2.33e+03
Ca XV	137.1954	$2s^2 2p^2 3P_0 - 2s 2p^3 3S_1$	6.6	2.39e+02
Fe XIX *	137.4878	$2s^2 2p^3 (4S) 3d 3D_3 - 2s 2p^4 (4P) 3d 5F_4$	7.0	1.48e+02
O VII	137.5104	$1s 2p^1 P_1 - 1s 3s^1 S_0$	6.8	4.67e+02
Fe XXI	138.1342	$2s^2 2p^2 1S_0 - 2s 2p^3 3S_1$	7.1	2.28e+03
Mn XX	138.2780	$2s^2 2p^2 3P_0 - 2s 2p^3 3D_1$	7.0	5.10e+03
Ne VI	138.3870	$2s^2 2p^2 2P_{1/2} - 2s^2 3s^2 S_{1/2}$	5.7	2.13e+02
Fe XX	138.4789	$2s 2p^4 2P_{1/2} - 2p^5 2P_{1/2}$	7.0	1.85e+02
Fe XXI	138.6025	$2s 2p^3 3P_1 - 2p^4 3P_2$	7.1	2.20e+02
Ne VI	138.6380	$2s^2 2p^2 2P_{3/2} - 2s^2 3s^2 S_{1/2}$	5.7	4.28e+02
Ni XXIV	138.7288	$2s^2 2p^2 2P_{3/2} - 2s 2p^2 2D_{5/2}$	7.1	6.98e+02
Fe XX	139.0411	$2s^2 2p^3 2P_{3/2} - 2s 2p^4 2D_{3/2}$	7.0	4.40e+02
Fe XXII	139.6465	$2s 2p^2 2P_{1/2} - 2p^3 2P_{1/2}$	7.1	3.47e+02
Cr XVIII	139.9680	$2s^2 2p^3 4S_{3/2} - 2s 2p^4 4P_{3/2}$	6.9	4.46e+03
Ti XV	140.3969	$2s^2 2p^4 3P_2 - 2s 2p^5 3P_2$	6.7	1.85e+02
Fe XX	140.4209	$2s 2p^4 2P_{3/2} - 2p^5 2P_{3/2}$	7.0	5.40e+02
Cr XIX	140.5810	$2s^2 2p^2 3P_2 - 2s 2p^3 3P_1$	6.9	5.19e+02
Ca XV	140.5812	$2s^2 2p^2 3P_1 - 2s 2p^3 3S_1$	6.6	6.80e+02
Mn XIX	141.0310	$2s^2 2p^3 4S_{3/2} - 2s 2p^4 4P_{5/2}$	6.9	3.28e+03
Ca XII	141.0380	$2s^2 2p^5 2P_{3/2} - 2s 2p^6 2S_{1/2}$	6.3	3.14e+02
Mn XXII	141.0900	$2s^2 1S_0 - 2s 2p^1 P_1$	7.1	1.86e+04
Mn XXI	141.5760	$2s^2 2p^2 2P_{3/2} - 2s 2p^2 2S_{1/2}$	7.0	2.66e+02
Fe XXI	142.0366	$2s 2p^3 3P_2 - 2p^4 3P_2$	7.1	2.10e+02
Fe XX	142.0429	$2s^2 2p^3 2D_{3/2} - 2s 2p^4 4P_{1/2}$	7.0	4.11e+03
Fe XXI	142.1436	$2s^2 2p^2 3P_1 - 2s 2p^3 3D_2$	7.1	3.70e+04
Fe XXI	142.2815	$2s^2 2p^2 3P_1 - 2s 2p^3 3D_1$	7.1	8.79e+04
Zn XXVIII	142.4662	$1s^2 2s^2 2S_{1/2} - 1s^2 2p^2 2P_{3/2}$	7.4	6.81e+02
Ne V	142.7240	$2s^2 2p^2 3P_2 - 2s^2 2p 3d 3P_2$	5.5	4.74e+02
Mg V	142.9350	$2s^2 2p^4 1D_2 - 2s^2 2p^3 (2D) 3s 1D_2$	5.5	1.65e+02
Ne V	143.2190	$2s^2 2p^2 3P_0 - 2s^2 2p 3d 3D_1$	5.5	2.69e+02
Fe XVII *	143.2516	$2s^2 2p^5 4d 3D_1 - 2s^2 2p^5 5p 1S_0$	6.9	2.58e+02
Ne V	143.2730	$2s^2 2p^2 3P_1 - 2s^2 2p 3d 3D_2$	5.5	6.05e+02
Ne V	143.3040	$2s^2 2p^2 3P_1 - 2s^2 2p 3d 3D_1$	5.5	1.54e+02
Fe XXI	143.3087	$2s^2 2p^2 1D_2 - 2s 2p^3 3P_2$	7.1	1.91e+02
Ne V	143.3440	$2s^2 2p^2 3P_2 - 2s^2 2p 3d 3D_3$	5.5	1.01e+03
Fe XVII *	143.7126	$2s^2 2p^5 4d 1P_1 - 2s^2 2p^5 5p 3P_0$	6.9	1.92e+02
Ca XV	144.3062	$2s^2 2p^2 3P_2 - 2s 2p^3 3S_1$	6.6	1.25e+03
Fe XXIII	144.3890	$2s 2p^3 3P_1 - 2p^2 3P_2$	7.1	7.14e+03



Table 1: (continued)

Ion	$\lambda$ (Å)	Transition	$T_{\max}$	Int
Ti XVIII	144.7550	$2s^2 2p^2 \ ^2P_{3/2} - 2s 2p^2 \ ^2P_{3/2}$	6.8	2.99e+02
Ni XXII	144.8100	$2s^2 2p^3 \ ^2D_{3/2} - 2s 2p^4 \ ^4P_{5/2}$	7.0	2.56e+03
Fe XXII	144.9125	$2s 2p^2 \ ^2D_{3/2} - 2p^3 \ ^2D_{5/2}$	7.1	7.13e+02
Fe XXI	144.9717	$2s 2p^3 \ ^1D_2 - 2p^4 \ ^1D_2$	7.1	5.77e+02
Mn XXI	145.4590	$2s^2 2p^2 \ ^2P_{1/2} - 2s 2p^2 \ ^2D_{3/2}$	7.0	4.24e+03
Fe XXI	145.7335	$2s^2 2p^2 \ ^3P_2 - 2s 2p^3 \ ^3D_3$	7.1	1.64e+04
Fe XX	146.6001	$2s^2 2p^3 \ ^2D_{3/2} - 2s 2p^4 \ ^4P_{3/2}$	7.0	2.64e+03
Fe XXI	146.9831	$2s^2 2p^2 \ ^1D_2 - 2s 2p^3 \ ^3P_1$	7.1	3.28e+03
Ne V	147.1320	$2s^2 2p^2 \ ^1D_2 - 2s^2 2p 3d \ ^1F_3$	5.5	8.65e+02
Fe XXIII	147.2540	$2s 2p \ ^3P_0 - 2p^2 \ ^3P_1$	7.1	1.23e+04
Ne VI	147.5930	$2s 2p^2 \ ^2D_{5/2} - 2s 2p \ (^3P) 3s \ ^2P_{3/2}$	5.7	3.31e+02
Ti XVIII	147.5960	$2s^2 2p^2 \ ^2P_{3/2} - 2s 2p^2 \ ^2P_{1/2}$	6.8	1.59e+02
Cr XX	147.6800	$2s^2 2p^2 \ ^2P_{3/2} - 2s 2p^2 \ ^2S_{1/2}$	7.0	8.36e+02
Ne VI	147.7660	$2s 2p^2 \ ^2D_{3/2} - 2s 2p \ (^3P) 3s \ ^2P_{1/2}$	5.7	1.80e+02
Ti XVIII	148.4550	$2s^2 2p^2 \ ^2P_{1/2} - 2s 2p^2 \ ^2S_{1/2}$	6.8	1.12e+03
Cr XIX	148.6620	$2s^2 2p^2 \ ^3P_0 - 2s 2p^3 \ ^3D_1$	6.9	9.10e+03
Fe XXIII	149.2117	$2s 2p \ ^1P_1 - 2p^2 \ ^1S_0$	7.1	1.24e+04
Cr XVIII	149.8280	$2s^2 2p^3 \ ^4S_{3/2} - 2s 2p^4 \ ^4P_{5/2}$	6.9	6.29e+03
Fe XXII	149.8606	$2s 2p^2 \ ^2D_{5/2} - 2p^3 \ ^2D_{5/2}$	7.1	2.53e+03
Cr XXI	149.9010	$2s^2 \ ^1S_0 - 2s 2p \ ^1P_1$	7.0	4.31e+04