

Predicted XUV Line Intensities  
CHIANTI database - Version 5.1

Calculated with Constant pressure= 1.00e+16 (cm<sup>-3</sup> K)  
2004.2 to 9915.7 Å  
Number of lines: 811  
Minimum intensity = 1.00000  
Units are: erg cm<sup>-2</sup> sr<sup>-1</sup> s<sup>-1</sup>  
Calculated: Wed Sep 14 15:12:18 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
S II	2004.1899	$3s 3p^4 \ ^4P_{1/2} - 3s^2 3p^2 \ (^3P) 4p \ ^4P_{3/2}$	4.5	2.82e+00
Ne V	2005.8610	$2s^2 2p 3p \ ^3D_3 - 2s^2 2p 3d \ ^3F_4$	5.5	2.13e+01
Fe II	2007.6680	$3d^6 \ (^3F_2) 4s b4f \ ^4F_{7/2} - 3d^6 \ (^3D) 4p w4do \ ^4D_{5/2}$	4.5	2.34e+00
Fe II	2008.0940	$3d^7 a4p \ ^4P_{5/2} - 3d^6 \ (^3F_2) 4p x4d \ ^4D_{5/2}$	4.5	4.35e+00
Fe II	2008.3610	$3d^7 a4p \ ^4P_{3/2} - 3d^6 \ (^3F_2) 4p x4d \ ^4D_{3/2}$	4.5	5.26e+00
Fe II	2013.9130	$3d^7 a4p \ ^4P_{1/2} - 3d^6 \ (^3F_2) 4p x4d \ ^4D_{1/2}$	4.5	4.75e+00
Fe II	2014.7850	$3d^6 \ (^3P_2) 4s b4p \ ^4P_{1/2} - 3d^6 \ (^3D) 4p w4po \ ^4P_{3/2}$	4.5	1.02e+00
Fe VII	2016.0150	$3p^6 3d^2 \ ^1D_2 - 3p^6 3d^2 \ ^1S_0$	5.4	7.02e+00
Fe II	2016.1410	$3d^7 a4p \ ^4P_{3/2} - 3d^6 \ (^3F_2) 4p x4d \ ^4D_{5/2}$	4.5	9.99e+00
Fe II	2016.7340	$3d^6 \ (^3F_2) 4s b4f \ ^4F_{5/2} - 3d^6 \ (^3D) 4p w4do \ ^4D_{3/2}$	4.5	1.53e+00
Fe II	2017.7480	$3d^7 a4p \ ^4P_{1/2} - 3d^6 \ (^3F_2) 4p x4d \ ^4D_{3/2}$	4.5	4.03e+00
Fe II	2021.4050	$3d^7 a4p \ ^4P_{5/2} - 3d^6 \ (^3F_2) 4p x4d \ ^4D_{7/2}$	4.5	1.99e+01
Fe II	2028.8530	$3d^7 a4p \ ^4P_{3/2} - 3d^6 \ (^3P_2) 4p y4d \ ^4D_{3/2}$	4.5	8.70e+00
Fe II	2031.8850	$3d^7 a4p \ ^4P_{5/2} - 3d^6 \ (^3P_2) 4p y4d \ ^4D_{5/2}$	4.5	7.70e+00
Fe II	2034.3480	$3d^7 a4p \ ^4P_{3/2} - 3d^6 \ (^3P_2) 4p y4d \ ^4D_{1/2}$	4.5	1.47e+00
Fe II	2038.4330	$3d^7 a4p \ ^4P_{1/2} - 3d^6 \ (^3P_2) 4p y4d \ ^4D_{3/2}$	4.5	6.67e+00
Fe II	2040.1250	$3d^7 a4p \ ^4P_{3/2} - 3d^6 \ (^3P_2) 4p y4d \ ^4D_{5/2}$	4.5	1.77e+01
Fe IX	2043.0090	$3s^2 3p^5 3d \ ^3P_2 - 3s^2 3p^5 3d \ ^3D_2$	5.9	9.13e+01
Ne VI	2043.0430	$2s^2 3s \ ^2S_{1/2} - 2s^2 3p \ ^2P_{3/2}$	5.7	3.06e+00
Fe II	2043.9800	$3d^7 a4p \ ^4P_{1/2} - 3d^6 \ (^3P_2) 4p y4d \ ^4D_{1/2}$	4.5	7.22e+00
Ne VI	2056.5959	$2s^2 3s \ ^2S_{1/2} - 2s^2 3p \ ^2P_{1/2}$	5.7	1.47e+00
Fe IX	2064.5120	$3s^2 3p^5 3d \ ^3P_1 - 3s^2 3p^5 3d \ ^1D_2$	5.9	1.07e+01
Fe II	2072.4709	$3d^7 a4p \ ^4P_{5/2} - 3d^6 \ (^3P_2) 4p y4d \ ^4D_{7/2}$	4.5	3.09e+01
S III	2072.6931	$3s^2 3p 3d \ ^3F_3 - 3s^2 3p 4p \ ^3D_3$	4.8	7.46e+00
Al II	2082.1431	$3s 3p \ ^3P_1 - 3p^2 \ ^1D_2$	4.5	5.22e+01
S III	2085.5010	$3s^2 3p 3d \ ^3F_2 - 3s^2 3p 4p \ ^3D_2$	4.8	7.58e+00
Ni XV	2086.1790	$3s^2 3p^2 \ ^3P_1 - 3s^2 3p^2 \ ^1D_2$	6.4	1.68e+01
Al II	2087.5271	$3s 3p \ ^3P_2 - 3p^2 \ ^1D_2$	4.5	8.71e+01
Co XXII	2088.5591	$2s^2 2p^2 \ ^3P_1 - 2s^2 2p^2 \ ^3P_2$	7.1	6.26e+01
Fe II	2089.5029	$3d^7 a4p \ ^4P_{5/2} - 3d^6 \ (^3P_2) 4p y4p \ ^4P_{3/2}$	4.5	1.00e+01
S III	2089.7849	$3s^2 3p 3d \ ^3F_4 - 3s^2 3p 4p \ ^3D_3$	4.8	8.62e+01
Cr XIX	2091.5730	$2s^2 2p^2 \ ^3P_0 - 2s^2 2p^2 \ ^3P_1$	6.9	6.86e+02
S III	2097.9919	$3s^2 3p 3d \ ^3F_3 - 3s^2 3p 4p \ ^3D_2$	4.8	6.08e+01
Fe II	2098.2180	$3d^7 a4p \ ^4P_{3/2} - 3d^6 \ (^3P_2) 4p y4p \ ^4P_{3/2}$	4.5	2.92e+00
S III	2098.5120	$3s^2 3p 3d \ ^3F_2 - 3s^2 3p 4p \ ^3D_1$	4.8	4.40e+01
Fe II	2108.4661	$3d^7 a4p \ ^4P_{1/2} - 3d^6 \ (^3P_2) 4p y4p \ ^4P_{3/2}$	4.5	8.95e+00
Fe II	2111.3970	$3d^7 a4p \ ^4P_{3/2} - 3d^6 \ (^3P_2) 4p y4p \ ^4P_{1/2}$	4.5	1.05e+01
Ca VII	2111.6465	$3s^2 3p^2 \ ^3P_1 - 3s^2 3p^2 \ ^1S_0$	5.7	1.08e+00
S III	2112.0259	$3s^2 3p^2 \ ^1D_2 - 3s 3p^3 \ ^5S_2$	4.6	1.69e+00
Fe II	2117.6670	$3d^6 \ (^3G) 4s a4g \ ^4G_{11/2} - 3d^6 \ (^3D) 4p w4fo \ ^4F_{9/2}$	4.5	5.19e+00
Ti XIV	2117.7949	$2s^2 2p^5 \ ^2P_{3/2} - 2s^2 2p^5 \ ^2P_{1/2}$	6.6	3.98e+00
Fe II	2121.7739	$3d^7 a4p \ ^4P_{1/2} - 3d^6 \ (^3P_2) 4p y4p \ ^4P_{1/2}$	4.5	2.06e+00
Ni XIII	2126.1750	$3s^2 3p^4 \ ^3P_2 - 3s^2 3p^4 \ ^1D_2$	6.3	1.63e+01
Fe II	2130.9309	$3d^7 a4p \ ^4P_{5/2} - 3d^6 \ (^3P_2) 4p y4p \ ^4P_{5/2}$	4.5	2.30e+01
N II	2139.6870	$2s^2 2p^2 \ ^3P_1 - 2s 2p^3 \ ^5S_2$	4.5	6.96e+02
Fe II	2139.9951	$3d^7 a4p \ ^4P_{3/2} - 3d^6 \ (^3P_2) 4p y4p \ ^4P_{5/2}$	4.5	9.69e+00
N II	2143.4519	$2s^2 2p^2 \ ^3P_2 - 2s 2p^3 \ ^5S_2$	4.5	1.71e+03
Fe VII	2143.7061	$3p^6 3d^2 \ ^3P_1 - 3p^6 3d^2 \ ^1S_0$	5.4	1.70e+00
Si VII	2147.3184	$2s^2 2p^4 \ ^3P_2 - 2s^2 2p^4 \ ^1D_2$	5.8	4.25e+01

Table 1: (continued)

Ion	$\lambda$ (Å)	Transition	$T_{\max}$	Int
Fe II	2148.3840	$3d^6 (^3G) 4s a4g ^4G_{9/2} - 3d^6 (^3D) 4p w4fo ^4F_{7/2}$	4.5	3.42e+00
Si IX	2149.9871	$2s^2 2p^2 ^3P_2 - 2s^2 2p^2 ^1D_2$	6.1	6.06e+01
Ne III	2150.6011	$2s^2 2p^3 (^2D) 3p ^3D_2 - 2s^2 2p^3 (^2D) 3d ^3F_3$	5.1	3.30e+00
Ne III	2151.3811	$2s^2 2p^3 (^2D) 3p ^3D_3 - 2s^2 2p^3 (^2D) 3d ^3F_4$	5.1	4.88e+00
Ne III	2151.9409	$2s^2 2p^3 (^2D) 3p ^3D_1 - 2s^2 2p^3 (^2D) 3d ^3F_2$	5.1	2.14e+00
S X	2157.0825	$2s^2 2p^3 ^2D_{3/2} - 2s^2 2p^3 ^2P_{3/2}$	6.2	1.73e+01
Fe II	2161.8440	$3d^6 (^3G) 4s a4g ^4G_{7/2} - 3d^6 (^3D) 4p w4fo ^4F_{5/2}$	4.5	2.56e+00
Fe II	2165.0200	$3d^7 a4p ^4P_{5/2} - 3d^6 (^3P_2) 4p z4s ^4S_{3/2}$	4.5	1.96e+01
Fe II	2168.5630	$3d^6 (^3G) 4s a4g ^4G_{5/2} - 3d^6 (^3D) 4p w4fo ^4F_{3/2}$	4.5	1.92e+00
Fe XII	2169.7620	$3s^2 3p^3 ^4S_{3/2} - 3s^2 3p^3 ^2D_{5/2}$	6.2	2.69e+01
Fe II	2174.3770	$3d^7 a4p ^4P_{3/2} - 3d^6 (^3P_2) 4p z4s ^4S_{3/2}$	4.5	1.28e+01
S III	2174.4231	$3s^2 3p 4p ^1P_1 - 3s^2 3p 4d ^1P_1$	4.9	1.52e+01
Ne III	2174.9951	$2s^2 2p^3 (^2D) 3s ^3D_3 - 2s^2 2p^3 (^2D) 3p ^1D_2$	5.1	2.24e+01
Ne III	2176.3750	$2s^2 2p^3 (^2D) 3s ^3D_2 - 2s^2 2p^3 (^2D) 3p ^1D_2$	5.1	4.08e+00
S III	2177.9231	$3s 3p^3 ^1P_1 - 3s^2 3p 4p ^1S_0$	4.8	4.04e+01
Ne III	2178.3921	$2s^2 2p^3 (^2D) 3s ^3D_2 - 2s^2 2p^3 (^2D) 3p ^3P_1$	5.1	1.16e+01
Ne III	2179.3540	$2s^2 2p^3 (^2D) 3s ^3D_1 - 2s^2 2p^3 (^2D) 3p ^3P_1$	5.1	3.92e+00
Fe X	2180.6919	$3s^2 3p^4 (^1D) 3d ^2D_{5/2} - 3s^2 3p^4 (^1D) 3d ^2F_{7/2}$	6.0	1.10e+00
Fe VI	2181.7910	$3d^3 ^2P_{3/2} - 3d^3 (b) ^2D_{3/2}$	5.2	1.14e+00
Ne III	2183.9189	$2s^2 2p^3 (^2D) 3s ^3D_1 - 2s^2 2p^3 (^2D) 3p ^3P_0$	5.1	5.06e+00
Fe II	2185.3840	$3d^7 a4p ^4P_{1/2} - 3d^6 (^3P_2) 4p z4s ^4S_{3/2}$	4.5	6.29e+00
S III	2200.9651	$3s^2 3p 3d ^3F_2 - 3s^2 3p 4p ^1P_1$	4.8	3.17e+00
Si III	2210.6431	$3p^2 ^3P_2 - 3s 4p ^3P_2$	4.7	1.29e+00
S X	2212.0508	$2s^2 2p^3 ^2D_{5/2} - 2s^2 2p^3 ^2P_{3/2}$	6.2	9.09e+00
Ne III	2212.5100	$2s^2 2p^3 (^2D) 3p ^3F_2 - 2s^2 2p^3 (^2D) 3d ^3G_3$	5.1	3.46e+00
Fe II	2214.3491	$3d^6 (^3H) 4s a4h ^4H_{13/2} - 3d^6 (^3G) 4p y4ho ^4H_{13/2}$	4.5	1.56e+01
Ne III	2214.4270	$2s^2 2p^3 (^2D) 3p ^3F_3 - 2s^2 2p^3 (^2D) 3d ^3G_4$	5.1	4.68e+00
Ne III	2216.7520	$2s^2 2p^3 (^2D) 3p ^3F_4 - 2s^2 2p^3 (^2D) 3d ^3G_5$	5.1	5.97e+00
Fe II	2220.5891	$3d^6 (^3H) 4s a4h ^4H_{11/2} - 3d^6 (^3G) 4p y4ho ^4H_{11/2}$	4.5	1.34e+01
Fe II	2221.8630	$3d^6 (^3H) 4s a4h ^4H_{9/2} - 3d^6 (^3G) 4p y4ho ^4H_{9/2}$	4.5	1.09e+01
Fe II	2224.1831	$3d^6 (^3H) 4s a4h ^4H_{7/2} - 3d^6 (^3G) 4p y4ho ^4H_{7/2}$	4.5	9.20e+00
S III	2237.5010	$3s 3p^3 ^3S_1 - 3s^2 3p 4p ^1S_0$	4.8	1.34e+00
Co XXI	2243.6150	$2s^2 2p^3 ^2D_{3/2} - 2s^2 2p^3 ^2D_{5/2}$	7.0	4.04e+00
S X	2245.6812	$2s^2 2p^3 ^2D_{3/2} - 2s^2 2p^3 ^2P_{1/2}$	6.2	9.32e+00
Ne VI	2248.4651	$2s 2p (^3P) 3s ^4P_{3/2} - 2s 2p (^3P) 3p ^4D_{5/2}$	5.7	2.62e+00
Ne VI	2253.9221	$2s 2p (^3P) 3s ^4P_{5/2} - 2s 2p (^3P) 3p ^4D_{7/2}$	5.7	7.72e+00
Ne V	2260.2739	$2s^2 2p 3s ^3P_1 - 2s^2 2p 3p ^3D_2$	5.5	4.77e+00
Ne III	2263.9541	$2s^2 2p^3 (^2D) 3p ^3F_4 - 2s^2 2p^3 (^2D) 3d ^3F_4$	5.1	1.93e+00
Ne V	2264.0959	$2s^2 2p 3s ^3P_0 - 2s^2 2p 3p ^3D_1$	5.5	1.87e+00
Ne III	2265.6179	$2s^2 2p^3 (^2D) 3p ^3F_3 - 2s^2 2p^3 (^2D) 3d ^3F_3$	5.1	1.23e+00
Ne V	2266.3960	$2s^2 2p 3s ^3P_2 - 2s^2 2p 3p ^3D_3$	5.5	1.01e+01
S IV	2270.9880	$3p^3 ^2P_{3/2} - 3s^2 4d ^2D_{5/2}$	5.1	2.48e+01
S IV	2271.2200	$3p^3 ^2P_{3/2} - 3s^2 4d ^2D_{3/2}$	5.1	2.67e+00
C V	2271.4878	$1s 2s ^3S_1 - 1s 2p ^3P_2$	6.0	1.12e+02
S IV	2271.7200	$3p^3 ^2P_{1/2} - 3s^2 4d ^2D_{3/2}$	5.1	1.30e+01
C V	2277.8660	$1s 2s ^3S_1 - 1s 2p ^3P_0$	6.0	2.04e+01
C V	2278.5151	$1s 2s ^3S_1 - 1s 2p ^3P_1$	6.0	4.25e+01
Ne V	2283.3279	$2s^2 2p 3s ^3P_1 - 2s^2 2p 3p ^3D_1$	5.5	1.24e+00
Fe II	2294.4800	$3d^6 (^3F_2) 4s b4f ^4F_{5/2} - 3d^6 (^3G) 4p x4fo ^4F_{5/2}$	4.5	3.04e+00

Table 1: (continued)

Ion	$\lambda$ (Å)	Transition	$T_{\max}$	Int
Fe II	2294.5630	$3d^6$ ( $^3F_2$ ) $4s$ $b4f$ $^4F_{3/2}$ - $3d^6$ ( $^3G$ ) $4p$ $x4fo$ $^4F_{3/2}$	4.5	2.35e+00
Fe II	2295.3230	$3d^6$ ( $^3F_2$ ) $4s$ $b4f$ $^4F_{7/2}$ - $3d^6$ ( $^3G$ ) $4p$ $x4fo$ $^4F_{7/2}$	4.5	4.51e+00
C III	2297.5779	$2s$ $2p$ $^1P_1$ - $2p^2$ $^1D_2$	4.9	3.98e+04
Fe XXI	2298.0042	$2s^2$ $2p^2$ $^3P_1$ - $2s^2$ $2p^2$ $^3P_2$	7.1	4.94e+04
Fe II	2305.4509	$3d^6$ ( $^3F_2$ ) $4s$ $b4f$ $^4F_{9/2}$ - $3d^6$ ( $^3G$ ) $4p$ $x4fo$ $^4F_{9/2}$	4.5	6.43e+00
Ne V	2307.0491	$2s^2$ $2p$ $3s$ $^3P_2$ - $2s^2$ $2p$ $3p$ $^3D_2$	5.5	1.32e+00
Fe II	2318.0969	$3d^6$ ( $^3F_2$ ) $4s$ $b4f$ $^4F_{5/2}$ - $3d^6$ ( $^3G$ ) $4p$ $x4go$ $^4G_{5/2}$	4.5	1.13e+00
Fe II	2319.0610	$3d^6$ ( $^3F_2$ ) $4s$ $b4f$ $^4F_{7/2}$ - $3d^6$ ( $^3G$ ) $4p$ $x4go$ $^4G_{7/2}$	4.5	1.50e+00
Fe IX	2321.0740	$3s^2$ $3p^5$ $3d$ $^3P_2$ - $3s^2$ $3p^5$ $3d$ $^1D_2$	5.9	3.63e+00
Fe VI	2321.2830	$3d^3$ (a) $^2D_{3/2}$ - $3d^3$ (b) $^2D_{5/2}$	5.2	1.40e+00
O III	2321.6641	$2s^2$ $2p^2$ $^3P_1$ - $2s^2$ $2p^2$ $^1S_0$	4.9	4.63e+00
Fe II	2322.4080	$3d^6$ ( $^3F_2$ ) $4s$ $b4f$ $^4F_{9/2}$ - $3d^6$ ( $^3G$ ) $4p$ $x4go$ $^4G_{9/2}$	4.5	1.15e+00
Fe II	2323.0481	$3d^6$ ( $^3F_2$ ) $4s$ $b4f$ $^4F_{3/2}$ - $3d^6$ ( $^3G$ ) $4p$ $x4go$ $^4G_{5/2}$	4.5	6.98e+00
C II	2324.2180	$2s^2$ $2p$ $^2P_{1/2}$ - $2s$ $2p^2$ $^4P_{3/2}$	4.5	5.93e+01
C II	2325.4070	$2s^2$ $2p$ $^2P_{1/2}$ - $2s$ $2p^2$ $^4P_{1/2}$	4.5	9.56e+02
Fe II	2326.0200	$3d^6$ ( $^3F_2$ ) $4s$ $b4f$ $^4F_{5/2}$ - $3d^6$ ( $^3G$ ) $4p$ $x4go$ $^4G_{7/2}$	4.5	9.38e+00
C II	2326.1169	$2s^2$ $2p$ $^2P_{3/2}$ - $2s$ $2p^2$ $^4P_{5/2}$	4.5	2.24e+03
C II	2327.6489	$2s^2$ $2p$ $^2P_{3/2}$ - $2s$ $2p^2$ $^4P_{3/2}$	4.5	1.82e+02
Fe II	2328.1150	$3d^6$ ( $^5D$ ) $4s$ $a6d$ $^6D_{5/2}$ - $3d^6$ ( $^5D$ ) $4p$ $z6po$ $^6P_{3/2}$	4.5	6.92e+01
Fe II	2328.6809	$3d^6$ ( $^3F_2$ ) $4s$ $b4f$ $^4F_{9/2}$ - $3d^6$ ( $^3G$ ) $4p$ $x4go$ $^4G_{11/2}$	4.5	1.59e+01
C II	2328.8420	$2s^2$ $2p$ $^2P_{3/2}$ - $2s$ $2p^2$ $^4P_{1/2}$	4.5	1.13e+03
Si II	2329.2371	$3s^2$ $3p$ $^2P_{1/2}$ - $3s$ $3p^2$ $^4P_{3/2}$	4.5	2.06e+00
Fe II	2331.7849	$3d^6$ ( $^3F_2$ ) $4s$ $b4f$ $^4F_{7/2}$ - $3d^6$ ( $^3G$ ) $4p$ $x4go$ $^4G_{9/2}$	4.5	1.25e+01
Fe II	2332.0271	$3d^7$ $a4f$ $^4F_{9/2}$ - $3d^6$ ( $^5D$ ) $4p$ $z4fo$ $^4F_{7/2}$	4.5	1.22e+01
Fe II	2333.5200	$3d^6$ ( $^5D$ ) $4s$ $a6d$ $^6D_{7/2}$ - $3d^6$ ( $^5D$ ) $4p$ $z6po$ $^6P_{5/2}$	4.5	1.97e+02
Si II	2335.1270	$3s^2$ $3p$ $^2P_{1/2}$ - $3s$ $3p^2$ $^4P_{1/2}$	4.5	3.13e+02
Si II	2335.3230	$3s^2$ $3p$ $^2P_{3/2}$ - $3s$ $3p^2$ $^4P_{5/2}$	4.5	5.54e+02
Fe II	2338.7290	$3d^6$ ( $^5D$ ) $4s$ $a6d$ $^6D_{3/2}$ - $3d^6$ ( $^5D$ ) $4p$ $z6po$ $^6P_{3/2}$	4.5	1.02e+02
Fe II	2344.2180	$3d^6$ ( $^5D$ ) $4s$ $a6d$ $^6D_{9/2}$ - $3d^6$ ( $^5D$ ) $4p$ $z6po$ $^6P_{7/2}$	4.5	3.94e+02
Fe II	2344.6819	$3d^7$ $a4f$ $^4F_{7/2}$ - $3d^6$ ( $^5D$ ) $4p$ $z4fo$ $^4F_{5/2}$	4.5	1.50e+01
Si II	2344.9231	$3s^2$ $3p$ $^2P_{3/2}$ - $3s$ $3p^2$ $^4P_{3/2}$	4.5	2.51e+02
Fe II	2345.0049	$3d^6$ ( $^5D$ ) $4s$ $a6d$ $^6D_{1/2}$ - $3d^6$ ( $^5D$ ) $4p$ $z6po$ $^6P_{3/2}$	4.5	7.20e+01
Ti XIX	2345.2200	$2s$ $2p$ $^3P_1$ - $2s$ $2p$ $^3P_2$	6.9	3.65e+00
Fe II	2346.0610	$3d^6$ ( $^3H$ ) $4s$ $a4h$ $^4H_{13/2}$ - $3d^6$ ( $^3F_2$ ) $4p$ $y4g$ $^4G_{11/2}$	4.5	3.85e+01
Fe II	2348.8379	$3d^7$ $a4f$ $^4F_{9/2}$ - $3d^6$ ( $^5D$ ) $4p$ $z4do$ $^4D_{7/2}$	4.5	2.86e+02
Fe II	2349.0271	$3d^6$ ( $^5D$ ) $4s$ $a6d$ $^6D_{5/2}$ - $3d^6$ ( $^5D$ ) $4p$ $z6po$ $^6P_{5/2}$	4.5	1.37e+02
Si VII	2350.7439	$2s^2$ $2p^4$ $^3P_1$ - $2s^2$ $2p^4$ $^1D_2$	5.8	9.89e+00
Si II	2350.8931	$3s^2$ $3p$ $^2P_{3/2}$ - $3s$ $3p^2$ $^4P_{1/2}$	4.5	2.05e+02
Fe II	2351.9260	$3d^6$ ( $^3H$ ) $4s$ $a4h$ $^4H_{11/2}$ - $3d^6$ ( $^3F_2$ ) $4p$ $y4g$ $^4G_{9/2}$	4.5	3.10e+01
Fe II	2355.2041	$3d^6$ ( $^3H$ ) $4s$ $a4h$ $^4H_{9/2}$ - $3d^6$ ( $^3F_2$ ) $4p$ $y4g$ $^4G_{7/2}$	4.5	2.52e+01
Fe II	2355.6140	$3d^7$ $a4f$ $^4F_{5/2}$ - $3d^6$ ( $^5D$ ) $4p$ $z4fo$ $^4F_{3/2}$	4.5	1.08e+01
Fe II	2355.9409	$3d^6$ ( $^3H$ ) $4s$ $a4h$ $^4H_{11/2}$ - $3d^6$ ( $^3F_2$ ) $4p$ $y4g$ $^4G_{11/2}$	4.5	1.77e+00
Fe II	2359.8320	$3d^6$ ( $^5D$ ) $4s$ $a6d$ $^6D_{3/2}$ - $3d^6$ ( $^5D$ ) $4p$ $z6po$ $^6P_{5/2}$	4.5	4.40e+01
Fe II	2359.8579	$3d^6$ ( $^3H$ ) $4s$ $a4h$ $^4H_{7/2}$ - $3d^6$ ( $^3F_2$ ) $4p$ $y4g$ $^4G_{5/2}$	4.5	2.01e+01
Fe II	2360.3240	$3d^6$ ( $^3H$ ) $4s$ $a4h$ $^4H_{9/2}$ - $3d^6$ ( $^3F_2$ ) $4p$ $y4g$ $^4G_{9/2}$	4.5	2.33e+00
Fe II	2360.7251	$3d^7$ $a4f$ $^4F_{9/2}$ - $3d^6$ ( $^5D$ ) $4p$ $z4fo$ $^4F_{9/2}$	4.5	3.59e+01
Fe II	2361.0200	$3d^7$ $a4f$ $^4F_{7/2}$ - $3d^6$ ( $^5D$ ) $4p$ $z4do$ $^4D_{5/2}$	4.5	1.77e+02
Fe II	2362.4529	$3d^6$ ( $^3H$ ) $4s$ $a4h$ $^4H_{7/2}$ - $3d^6$ ( $^3F_2$ ) $4p$ $y4g$ $^4G_{7/2}$	4.5	1.79e+00
Fe II	2362.7471	$3d^7$ $a4f$ $^4F_{7/2}$ - $3d^6$ ( $^5D$ ) $4p$ $z4fo$ $^4F_{7/2}$	4.5	8.56e+01

Table 1: (continued)

Ion	$\lambda$ (Å)	Transition	$T_{\max}$	Int
Al VIII	2363.5120	$2p^2 \ ^3P_2 - 2p^2 \ ^1D_2$	6.0	2.12e+00
Fe II	2365.5559	$3d^6 \ (^5D) \ 4s \ a6d \ ^6D_{7/2} - 3d^6 \ (^5D) \ 4p \ z6po \ ^6P_{7/2}$	4.5	1.09e+02
Fe II	2367.3210	$3d^7 \ a4f \ ^4F_{5/2} - 3d^6 \ (^5D) \ 4p \ z4fo \ ^4F_{5/2}$	4.5	5.55e+01
Fe II	2367.5950	$3d^6 \ (^5D) \ 4s \ a6d \ ^6D_{9/2} - 3d^6 \ (^5D) \ 4p \ z6fo \ ^6F_{7/2}$	4.5	1.12e+01
Fe II	2369.3230	$3d^7 \ a4f \ ^4F_{5/2} - 3d^6 \ (^5D) \ 4p \ z4do \ ^4D_{3/2}$	4.5	1.12e+02
Fe II	2371.2271	$3d^7 \ a4f \ ^4F_{3/2} - 3d^6 \ (^5D) \ 4p \ z4fo \ ^4F_{3/2}$	4.5	4.21e+01
Fe II	2373.5190	$3d^6 \ (^3P_2) \ 4s \ b4p \ ^4P_{5/2} - 3d^6 \ (^3P_2) \ 4p \ y4d \ ^4D_{3/2}$	4.5	2.08e+00
Fe II	2374.4661	$3d^6 \ (^5D) \ 4s \ a6d \ ^6D_{9/2} - 3d^6 \ (^5D) \ 4p \ z6fo \ ^6F_{9/2}$	4.5	1.37e+02
Fe II	2375.9231	$3d^7 \ a4f \ ^4F_{3/2} - 3d^6 \ (^5D) \ 4p \ z4do \ ^4D_{1/2}$	4.5	6.78e+01
Fe II	2380.0061	$3d^7 \ a4f \ ^4F_{7/2} - 3d^6 \ (^5D) \ 4p \ z4do \ ^4D_{7/2}$	4.5	3.09e+01
Fe II	2381.4929	$3d^6 \ (^5D) \ 4s \ a6d \ ^6D_{5/2} - 3d^6 \ (^5D) \ 4p \ z6po \ ^6P_{7/2}$	4.5	1.76e+01
Fe II	2382.7700	$3d^6 \ (^5D) \ 4s \ a6d \ ^6D_{9/2} - 3d^6 \ (^5D) \ 4p \ z6fo \ ^6F_{11/2}$	4.5	8.59e+02
Fe II	2383.0891	$3d^7 \ a4f \ ^4F_{3/2} - 3d^6 \ (^5D) \ 4p \ z4fo \ ^4F_{5/2}$	4.5	1.05e+01
Fe II	2383.7930	$3d^6 \ (^5D) \ 4s \ a6d \ ^6D_{7/2} - 3d^6 \ (^5D) \ 4p \ z6fo \ ^6F_{5/2}$	4.5	2.53e+01
Fe II	2383.9761	$3d^7 \ a4f \ ^4F_{5/2} - 3d^6 \ (^5D) \ 4p \ z4do \ ^4D_{5/2}$	4.5	3.62e+01
Fe IX	2384.1880	$3s^2 \ 3p^5 \ 3d \ ^3P_2 - 3s^2 \ 3p^5 \ 3d \ ^3D_3$	5.9	3.93e+01
Fe II	2385.1189	$3d^7 \ a4f \ ^4F_{3/2} - 3d^6 \ (^5D) \ 4p \ z4do \ ^4D_{3/2}$	4.5	2.70e+01
Fe II	2385.7371	$3d^7 \ a4f \ ^4F_{5/2} - 3d^6 \ (^5D) \ 4p \ z4fo \ ^4F_{7/2}$	4.5	1.45e+01
S IV	2387.7119	$3s^2 \ 4p \ ^2P_{1/2} - 3s^2 \ 4d \ ^2D_{3/2}$	5.1	3.70e+01
Fe II	2388.9600	$3d^6 \ (^3P_2) \ 4s \ b4p \ ^4P_{5/2} - 3d^6 \ (^3P_2) \ 4p \ y4d \ ^4D_{5/2}$	4.5	1.92e+01
Fe II	2389.3630	$3d^6 \ (^5D) \ 4s \ a6d \ ^6D_{7/2} - 3d^6 \ (^5D) \ 4p \ z6fo \ ^6F_{7/2}$	4.5	1.99e+02
O III	2391.1609	$2s^2 \ 2p \ 3p \ ^1P_1 - 2s^2 \ 2p \ 3d \ ^1P_1$	5.1	5.11e+00
Fe II	2392.2109	$3d^7 \ a4f \ ^4F_{7/2} - 3d^6 \ (^5D) \ 4p \ z4fo \ ^4F_{9/2}$	4.5	3.08e+00
Fe II	2396.1541	$3d^6 \ (^5D) \ 4s \ a6d \ ^6D_{5/2} - 3d^6 \ (^5D) \ 4p \ z6fo \ ^6F_{3/2}$	4.5	3.47e+01
Fe II	2396.3601	$3d^6 \ (^5D) \ 4s \ a6d \ ^6D_{7/2} - 3d^6 \ (^5D) \ 4p \ z6fo \ ^6F_{9/2}$	4.5	5.84e+02
S IV	2399.5200	$3s^2 \ 4p \ ^2P_{3/2} - 3s^2 \ 4d \ ^2D_{5/2}$	5.1	6.71e+01
S IV	2399.7791	$3s^2 \ 4p \ ^2P_{3/2} - 3s^2 \ 4d \ ^2D_{3/2}$	5.1	7.25e+00
Fe II	2399.9680	$3d^7 \ a4f \ ^4F_{3/2} - 3d^6 \ (^5D) \ 4p \ z4do \ ^4D_{5/2}$	4.5	1.93e+00
Fe II	2399.9771	$3d^6 \ (^5D) \ 4s \ a6d \ ^6D_{5/2} - 3d^6 \ (^5D) \ 4p \ z6fo \ ^6F_{5/2}$	4.5	2.00e+02
Ni XII	2400.3879	$3s^2 \ 3p^4 \ (^3P) \ 3d \ ^4F_{9/2} - 3s^2 \ 3p^4 \ (^1D) \ 3d \ ^2G_{9/2}$	6.3	1.27e+00
Fe II	2403.3350	$3d^7 \ a4f \ ^4F_{5/2} - 3d^6 \ (^5D) \ 4p \ z4do \ ^4D_{7/2}$	4.5	1.51e+00
Fe II	2405.1680	$3d^6 \ (^5D) \ 4s \ a6d \ ^6D_{3/2} - 3d^6 \ (^5D) \ 4p \ z6fo \ ^6F_{1/2}$	4.5	3.09e+01
Fe II	2405.6230	$3d^6 \ (^5D) \ 4s \ a6d \ ^6D_{5/2} - 3d^6 \ (^5D) \ 4p \ z6fo \ ^6F_{7/2}$	4.5	3.68e+02
Fe XII	2406.4141	$3s^2 \ 3p^3 \ ^4S_{3/2} - 3s^2 \ 3p^3 \ ^2D_{3/2}$	6.2	2.55e+02
Fe II	2407.3989	$3d^6 \ (^5D) \ 4s \ a6d \ ^6D_{3/2} - 3d^6 \ (^5D) \ 4p \ z6fo \ ^6F_{3/2}$	4.5	1.62e+02
Fe II	2411.2581	$3d^6 \ (^5D) \ 4s \ a6d \ ^6D_{3/2} - 3d^6 \ (^5D) \ 4p \ z6fo \ ^6F_{5/2}$	4.5	2.03e+02
Fe II	2411.8069	$3d^6 \ (^5D) \ 4s \ a6d \ ^6D_{1/2} - 3d^6 \ (^5D) \ 4p \ z6fo \ ^6F_{1/2}$	4.5	1.07e+02
Fe II	2414.0500	$3d^6 \ (^5D) \ 4s \ a6d \ ^6D_{1/2} - 3d^6 \ (^5D) \ 4p \ z6fo \ ^6F_{3/2}$	4.5	8.69e+01
Mg V	2417.6780	$2s^2 \ 2p^4 \ ^1D_2 - 2s^2 \ 2p^4 \ ^1S_0$	5.4	1.95e+00
Fe II	2420.6331	$3d^6 \ (^3F_2) \ 4s \ b4f \ ^4F_{9/2} - 3d^6 \ (^3F_2) \ 4p \ y4g \ ^4G_{9/2}$	4.5	9.11e+00
Fe II	2423.4280	$3d^6 \ (^3D) \ 4s \ b4d \ ^4D_{5/2} - 3d^6 \ (^3D) \ 4p \ w4do \ ^4D_{7/2}$	4.5	7.35e+00
Fe II	2423.9500	$3d^6 \ (^3D) \ 4s \ b4d \ ^4D_{3/2} - 3d^6 \ (^3D) \ 4p \ w4do \ ^4D_{5/2}$	4.5	9.26e+00
Fe II	2424.8870	$3d^6 \ (^3F_2) \ 4s \ b4f \ ^4F_{9/2} - 3d^6 \ (^3F_2) \ 4p \ y4g \ ^4G_{11/2}$	4.5	1.30e+02
Fe II	2425.3320	$3d^6 \ (^3D) \ 4s \ b4d \ ^4D_{5/2} - 3d^6 \ (^3D) \ 4p \ w4do \ ^4D_{5/2}$	4.5	2.27e+01
Fe II	2425.3921	$3d^6 \ (^3F_2) \ 4s \ b4f \ ^4F_{7/2} - 3d^6 \ (^3F_2) \ 4p \ y4g \ ^4G_{7/2}$	4.5	1.20e+01
Fe II	2429.0339	$3d^6 \ (^3D) \ 4s \ b4d \ ^4D_{7/2} - 3d^6 \ (^3D) \ 4p \ w4do \ ^4D_{7/2}$	4.5	4.38e+01
Fe II	2429.1060	$3d^6 \ (^3D) \ 4s \ b4d \ ^4D_{7/2} - 3d^6 \ (^3D) \ 4p \ w4fo \ ^4F_{9/2}$	4.5	9.19e+01
Fe II	2429.5400	$3d^6 \ (^3D) \ 4s \ b4d \ ^4D_{3/2} - 3d^6 \ (^3D) \ 4p \ w4do \ ^4D_{3/2}$	4.5	1.07e+01
Fe II	2429.7771	$3d^6 \ (^3D) \ 4s \ b4d \ ^4D_{1/2} - 3d^6 \ (^3D) \ 4p \ w4do \ ^4D_{3/2}$	4.5	6.66e+00

Table 1: (continued)

Ion	$\lambda$ (Å)	Transition	$T_{\max}$	Int
Fe II	2430.1289	$3d^6$ ( $^3P_2$ ) $4s$ $b4p$ $^4P_{3/2}$ - $3d^6$ ( $^3P_2$ ) $4p$ $y4d$ $^4D_{3/2}$	4.5	2.02e+01
Fe II	2430.2520	$3d^6$ ( $^3F_2$ ) $4s$ $b4f$ $^4F_{5/2}$ - $3d^6$ ( $^3F_2$ ) $4p$ $y4g$ $^4G_{5/2}$	4.5	9.10e+00
Al VI	2430.3110	$2p^4$ $^3P_2$ - $2p^4$ $^1D_2$	5.6	1.51e+00
Fe II	2430.8220	$3d^6$ ( $^3F_2$ ) $4s$ $b4f$ $^4F_{7/2}$ - $3d^6$ ( $^3F_2$ ) $4p$ $y4g$ $^4G_{9/2}$	4.5	9.90e+01
Fe II	2430.9290	$3d^6$ ( $^3D$ ) $4s$ $b4d$ $^4D_{5/2}$ - $3d^6$ ( $^3D$ ) $4p$ $w4do$ $^4D_{3/2}$	4.5	9.30e+00
Fe II	2430.9470	$3d^6$ ( $^3D$ ) $4s$ $b4d$ $^4D_{7/2}$ - $3d^6$ ( $^3D$ ) $4p$ $w4do$ $^4D_{5/2}$	4.5	7.45e+00
Fe II	2433.0039	$3d^6$ ( $^3F_2$ ) $4s$ $b4f$ $^4F_{5/2}$ - $3d^6$ ( $^3F_2$ ) $4p$ $y4g$ $^4G_{7/2}$	4.5	7.55e+01
Fe II	2435.1521	$3d^6$ ( $^3D$ ) $4s$ $b4d$ $^4D_{3/2}$ - $3d^6$ ( $^3D$ ) $4p$ $w4do$ $^4D_{1/2}$	4.5	6.75e+00
Fe II	2435.3899	$3d^6$ ( $^3D$ ) $4s$ $b4d$ $^4D_{1/2}$ - $3d^6$ ( $^3D$ ) $4p$ $w4do$ $^4D_{1/2}$	4.5	6.75e+00
Fe II	2435.6951	$3d^6$ ( $^3F_2$ ) $4s$ $b4f$ $^4F_{3/2}$ - $3d^6$ ( $^3F_2$ ) $4p$ $y4g$ $^4G_{5/2}$	4.5	5.60e+01
Fe II	2436.9629	$3d^6$ ( $^3G$ ) $4s$ $a4g$ $^4G_{11/2}$ - $3d^6$ ( $^3G$ ) $4p$ $y4ho$ $^4H_{11/2}$	4.5	8.34e+00
Fe II	2438.0171	$3d^6$ ( $^3P_2$ ) $4s$ $b4p$ $^4P_{3/2}$ - $3d^6$ ( $^3P_2$ ) $4p$ $y4d$ $^4D_{1/2}$	4.5	3.40e+00
Fe II	2440.0459	$3d^6$ ( $^3G$ ) $4s$ $a4g$ $^4G_{11/2}$ - $3d^6$ ( $^3G$ ) $4p$ $y4ho$ $^4H_{13/2}$	4.5	1.63e+02
Fe II	2441.1680	$3d^6$ ( $^3D$ ) $4s$ $b4d$ $^4D_{5/2}$ - $3d^6$ ( $^3D$ ) $4p$ $w4fo$ $^4F_{7/2}$	4.5	5.64e+01
Fe II	2445.2610	$3d^6$ ( $^3P_2$ ) $4s$ $b4p$ $^4P_{5/2}$ - $3d^6$ ( $^3P_2$ ) $4p$ $y4d$ $^4D_{7/2}$	4.5	7.60e+01
Fe II	2446.3191	$3d^6$ ( $^3P_2$ ) $4s$ $b4p$ $^4P_{3/2}$ - $3d^6$ ( $^3P_2$ ) $4p$ $y4d$ $^4D_{5/2}$	4.5	4.08e+01
Fe II	2446.5430	$3d^6$ ( $^3D$ ) $4s$ $b4d$ $^4D_{3/2}$ - $3d^6$ ( $^3D$ ) $4p$ $w4fo$ $^4F_{5/2}$	4.5	3.75e+01
Fe II	2446.8560	$3d^6$ ( $^3D$ ) $4s$ $b4d$ $^4D_{7/2}$ - $3d^6$ ( $^3D$ ) $4p$ $w4fo$ $^4F_{7/2}$	4.5	9.29e+00
Fe II	2447.9509	$3d^6$ ( $^3D$ ) $4s$ $b4d$ $^4D_{5/2}$ - $3d^6$ ( $^3D$ ) $4p$ $w4fo$ $^4F_{5/2}$	4.5	1.21e+01
Fe II	2448.0730	$3d^6$ ( $^3D$ ) $4s$ $b4d$ $^4D_{3/2}$ - $3d^6$ ( $^3D$ ) $4p$ $w4po$ $^4P_{1/2}$	4.5	6.98e+00
Fe II	2448.3130	$3d^6$ ( $^3D$ ) $4s$ $b4d$ $^4D_{1/2}$ - $3d^6$ ( $^3D$ ) $4p$ $w4po$ $^4P_{1/2}$	4.5	6.98e+00
Fe II	2450.7109	$3d^6$ ( $^3D$ ) $4s$ $b4d$ $^4D_{3/2}$ - $3d^6$ ( $^3D$ ) $4p$ $w4fo$ $^4F_{3/2}$	4.5	9.43e+00
Fe II	2450.9519	$3d^6$ ( $^3D$ ) $4s$ $b4d$ $^4D_{1/2}$ - $3d^6$ ( $^3D$ ) $4p$ $w4fo$ $^4F_{3/2}$	4.5	2.36e+01
Fe II	2451.9661	$3d^6$ ( $^3G$ ) $4s$ $a4g$ $^4G_{9/2}$ - $3d^6$ ( $^3G$ ) $4p$ $y4ho$ $^4H_{9/2}$	4.5	1.07e+01
O III	2455.7090	$2s^2$ $2p$ $3s$ $^1P_1$ - $2s^2$ $2p$ $3p$ $^1S_0$	5.1	1.86e+02
Fe II	2457.5681	$3d^6$ ( $^3G$ ) $4s$ $a4g$ $^4G_{7/2}$ - $3d^6$ ( $^3G$ ) $4p$ $y4ho$ $^4H_{7/2}$	4.5	8.00e+00
Fe II	2458.3000	$3d^6$ ( $^3D$ ) $4s$ $b4d$ $^4D_{3/2}$ - $3d^6$ ( $^3D$ ) $4p$ $w4po$ $^4P_{3/2}$	4.5	8.91e+00
Fe II	2458.5430	$3d^6$ ( $^3D$ ) $4s$ $b4d$ $^4D_{1/2}$ - $3d^6$ ( $^3D$ ) $4p$ $w4po$ $^4P_{3/2}$	4.5	1.39e+00
Fe II	2459.5330	$3d^6$ ( $^3G$ ) $4s$ $a4g$ $^4G_{9/2}$ - $3d^6$ ( $^3G$ ) $4p$ $y4ho$ $^4H_{11/2}$	4.5	1.39e+02
Fe II	2459.7219	$3d^6$ ( $^3D$ ) $4s$ $b4d$ $^4D_{5/2}$ - $3d^6$ ( $^3D$ ) $4p$ $w4po$ $^4P_{3/2}$	4.5	1.75e+01
Fe II	2462.0330	$3d^6$ ( $^3G$ ) $4s$ $a4g$ $^4G_{5/2}$ - $3d^6$ ( $^3G$ ) $4p$ $y4ho$ $^4H_{7/2}$	4.5	8.88e+01
Fe II	2462.6111	$3d^6$ ( $^3G$ ) $4s$ $a4g$ $^4G_{7/2}$ - $3d^6$ ( $^3G$ ) $4p$ $y4ho$ $^4H_{9/2}$	4.5	1.11e+02
Fe II	2464.0320	$3d^6$ ( $^3G$ ) $4s$ $a4g$ $^4G_{11/2}$ - $3d^6$ ( $^3G$ ) $4p$ $x4fo$ $^4F_{9/2}$	4.5	6.05e+01
Fe II	2464.4690	$3d^6$ ( $^3D$ ) $4s$ $b4d$ $^4D_{5/2}$ - $3d^6$ ( $^3D$ ) $4p$ $w4po$ $^4P_{5/2}$	4.5	7.38e+00
Fe II	2464.7610	$3d^6$ ( $^3G$ ) $4s$ $a4g$ $^4G_{9/2}$ - $3d^6$ ( $^3G$ ) $4p$ $x4fo$ $^4F_{7/2}$	4.5	4.77e+01
Fe II	2465.6560	$3d^6$ ( $^3G$ ) $4s$ $a4g$ $^4G_{5/2}$ - $3d^6$ ( $^3G$ ) $4p$ $x4fo$ $^4F_{3/2}$	4.5	2.65e+01
Fe II	2465.9529	$3d^6$ ( $^3P_2$ ) $4s$ $b4p$ $^4P_{1/2}$ - $3d^6$ ( $^3P_2$ ) $4p$ $y4d$ $^4D_{3/2}$	4.5	1.48e+01
Fe II	2466.6631	$3d^6$ ( $^3G$ ) $4s$ $a4g$ $^4G_{7/2}$ - $3d^6$ ( $^3G$ ) $4p$ $x4fo$ $^4F_{5/2}$	4.5	3.56e+01
Fe II	2467.4231	$3d^6$ ( $^3F_2$ ) $4s$ $b4f$ $^4F_{3/2}$ - $3d^6$ ( $^3F_2$ ) $4p$ $x4d$ $^4D_{1/2}$	4.5	3.06e+01
Fe II	2467.5720	$3d^6$ ( $^3F_2$ ) $4s$ $b4f$ $^4F_{5/2}$ - $3d^6$ ( $^3F_2$ ) $4p$ $x4d$ $^4D_{3/2}$	4.5	4.21e+01
Fe II	2469.0071	$3d^6$ ( $^3P_2$ ) $4s$ $b4p$ $^4P_{5/2}$ - $3d^6$ ( $^3P_2$ ) $4p$ $y4p$ $^4P_{3/2}$	4.5	2.26e+01
Fe II	2470.2671	$3d^6$ ( $^3D$ ) $4s$ $b4d$ $^4D_{7/2}$ - $3d^6$ ( $^3D$ ) $4p$ $w4po$ $^4P_{5/2}$	4.5	3.25e+01
O II	2470.9709	$2s^2$ $2p^3$ $^4S_{3/2}$ - $2s^2$ $2p^3$ $^2P_{1/2}$	4.6	1.95e+00
O II	2471.0920	$2s^2$ $2p^3$ $^4S_{3/2}$ - $2s^2$ $2p^3$ $^2P_{3/2}$	4.6	9.50e+00
Fe II	2471.1609	$3d^6$ ( $^3G$ ) $4s$ $a4g$ $^4G_{5/2}$ - $3d^6$ ( $^3G$ ) $4p$ $x4fo$ $^4F_{5/2}$	4.5	4.25e+00
Fe II	2471.4221	$3d^6$ ( $^3F_2$ ) $4s$ $b4f$ $^4F_{7/2}$ - $3d^6$ ( $^3F_2$ ) $4p$ $x4d$ $^4D_{5/2}$	4.5	6.24e+01
Fe II	2473.1819	$3d^6$ ( $^3F_2$ ) $4s$ $b4f$ $^4F_{3/2}$ - $3d^6$ ( $^3F_2$ ) $4p$ $x4d$ $^4D_{3/2}$	4.5	1.04e+01
Fe II	2474.0750	$3d^6$ ( $^3P_2$ ) $4s$ $b4p$ $^4P_{1/2}$ - $3d^6$ ( $^3P_2$ ) $4p$ $y4d$ $^4D_{1/2}$	4.5	1.60e+01
Fe II	2475.5190	$3d^6$ ( $^3G$ ) $4s$ $a4g$ $^4G_{7/2}$ - $3d^6$ ( $^3G$ ) $4p$ $x4fo$ $^4F_{7/2}$	4.5	5.56e+00

Table 1: (continued)

Ion	$\lambda$ (Å)	Transition	$T_{\max}$	Int
Fe II	2479.3259	$3d^6 (^3F2) 4s b4f ^4F_{5/2} - 3d^6 (^3F2) 4p x4d ^4D_{5/2}$	4.5	1.31e+01
Fe II	2480.9121	$3d^6 (^3F2) 4s b4f ^4F_{9/2} - 3d^6 (^3F2) 4p x4d ^4D_{7/2}$	4.5	9.48e+01
Fe II	2482.8721	$3d^6 (^3H) 4s a4h ^4H_{13/2} - 3d^6 (^3H) 4p z4io ^4I_{13/2}$	4.5	1.02e+01
Fe II	2483.4121	$3d^6 (^3G) 4s a4g ^4G_{11/2} - 3d^6 (^3G) 4p x4go ^4G_{9/2}$	4.5	6.46e+00
Fe II	2487.1079	$3d^6 (^3G) 4s a4g ^4G_{9/2} - 3d^6 (^3G) 4p x4fo ^4F_{9/2}$	4.5	4.02e+00
Fe II	2490.2400	$3d^6 (^3H) 4s a4h ^4H_{11/2} - 3d^6 (^3H) 4p z4io ^4I_{11/2}$	4.5	1.48e+01
Fe II	2490.5869	$3d^6 (^3G) 4s a4g ^4G_{11/2} - 3d^6 (^3G) 4p x4go ^4G_{11/2}$	4.5	1.07e+02
S III	2491.2419	$3s 3p^3 ^1P_1 - 3s^2 3p 4p ^1D_2$	4.8	1.79e+01
Fe II	2491.6150	$3d^6 (^3F2) 4s b4f ^4F_{7/2} - 3d^6 (^3F2) 4p x4d ^4D_{7/2}$	4.5	1.06e+01
Fe II	2492.1541	$3d^6 (^3G) 4s a4g ^4G_{9/2} - 3d^6 (^3G) 4p x4go ^4G_{7/2}$	4.5	8.24e+00
Fe II	2493.9409	$3d^6 (^3H) 4s a4h ^4H_{11/2} - 3d^6 (^3H) 4p z4io ^4I_{13/2}$	4.5	2.53e+02
Fe II	2493.9790	$3d^6 (^3G) 4s a4g ^4G_{7/2} - 3d^6 (^3G) 4p x4go ^4G_{5/2}$	4.5	6.13e+00
Fe II	2494.0190	$3d^6 (^3H) 4s a4h ^4H_{13/2} - 3d^6 (^3H) 4p z4io ^4I_{15/2}$	4.5	2.54e+02
Fe II	2498.5779	$3d^6 (^3G) 4s a4g ^4G_{5/2} - 3d^6 (^3G) 4p x4go ^4G_{5/2}$	4.5	5.06e+01
Fe IX	2498.8379	$3s^2 3p^5 3d ^3F_4 - 3s^2 3p^5 3d ^1F_3$	5.9	1.72e+02
Fe II	2499.6560	$3d^6 (^3H) 4s a4h ^4H_{9/2} - 3d^6 (^3H) 4p z4io ^4I_{11/2}$	4.5	2.32e+02
Fe II	2503.1521	$3d^6 (^3G) 4s a4g ^4G_{7/2} - 3d^6 (^3G) 4p x4go ^4G_{7/2}$	4.5	6.14e+01
Fe II	2504.3250	$3d^6 (^3H) 4s a4h ^4H_{9/2} - 3d^6 (^3H) 4p z4io ^4I_{9/2}$	4.5	1.46e+01
Fe II	2506.8540	$3d^6 (^3G) 4s a4g ^4G_{9/2} - 3d^6 (^3G) 4p x4go ^4G_{9/2}$	4.5	8.02e+01
Fe II	2507.7839	$3d^6 (^3G) 4s a4g ^4G_{5/2} - 3d^6 (^3G) 4p x4go ^4G_{7/2}$	4.5	6.05e+00
C II	2509.8860	$2s 2p^2 ^2P_{1/2} - 2p^3 ^2D_{3/2}$	4.6	3.11e+02
Mg VII	2510.1079	$2s^2 2p^2 ^3P_1 - 2s^2 2p^2 ^1D_2$	5.8	3.28e+00
C II	2512.4961	$2s 2p^2 ^2P_{3/2} - 2p^3 ^2D_{3/2}$	4.6	6.12e+01
Fe II	2512.5220	$3d^6 (^3H) 4s a4h ^4H_{7/2} - 3d^6 (^3H) 4p z4io ^4I_{9/2}$	4.5	1.92e+02
C II	2512.8191	$2s 2p^2 ^2P_{3/2} - 2p^3 ^2D_{5/2}$	4.6	5.57e+02
Fe II	2514.1650	$3d^6 (^3G) 4s a4g ^4G_{9/2} - 3d^6 (^3G) 4p x4go ^4G_{11/2}$	4.5	5.96e+00
Fe II	2517.9819	$3d^6 (^3G) 4s a4g ^4G_{7/2} - 3d^6 (^3G) 4p x4go ^4G_{9/2}$	4.5	7.97e+00
Fe II	2522.9641	$3d^6 (^3H) 4s a4h ^4H_{13/2} - 3d^6 (^3H) 4p z4ho ^4H_{11/2}$	4.5	1.04e+01
Fe II	2526.1531	$3d^6 (^3H) 4s a4h ^4H_{13/2} - 3d^6 (^3H) 4p z4ho ^4H_{13/2}$	4.5	1.99e+02
Fe II	2526.8401	$3d^6 (^3H) 4s a4h ^4H_{9/2} - 3d^6 (^3H) 4p z4ho ^4H_{7/2}$	4.5	8.03e+00
Fe II	2527.0591	$3d^6 (^3P2) 4s b4p ^4P_{5/2} - 3d^6 (^3P2) 4p y4p ^4P_{5/2}$	4.5	5.12e+01
Fe II	2527.8689	$3d^6 (^3H) 4s a4h ^4H_{11/2} - 3d^6 (^3H) 4p z4ho ^4H_{9/2}$	4.5	1.09e+01
Fe II	2530.3110	$3d^6 (^3F2) 4s b4f ^4F_{9/2} - 3d^6 (^3F2) 4p y4f ^4F_{9/2}$	4.5	1.15e+02
Fe II	2530.3230	$3d^6 (^3P2) 4s b4p ^4P_{3/2} - 3d^6 (^3P2) 4p y4p ^4P_{3/2}$	4.5	6.08e+00
Fe II	2534.3940	$3d^6 (^3H) 4s a4h ^4H_{11/2} - 3d^6 (^3H) 4p z4ho ^4H_{11/2}$	4.5	2.05e+02
Fe II	2535.1860	$3d^6 (^3H) 4s a4h ^4H_{7/2} - 3d^6 (^3H) 4p z4ho ^4H_{7/2}$	4.5	1.11e+02
Fe II	2536.2529	$3d^6 (^3F2) 4s b4f ^4F_{9/2} - 3d^6 (^3F2) 4p y4f ^4F_{7/2}$	4.5	1.06e+01
Fe II	2537.5730	$3d^6 (^3H) 4s a4h ^4H_{9/2} - 3d^6 (^3H) 4p z4ho ^4H_{9/2}$	4.5	1.33e+02
Fe II	2537.6111	$3d^6 (^3H) 4s a4h ^4H_{11/2} - 3d^6 (^3H) 4p z4ho ^4H_{13/2}$	4.5	7.78e+00
Fe II	2539.5669	$3d^6 (^3H) 4s a4h ^4H_{11/2} - 3d^6 (^3H) 4p z4go ^4G_{9/2}$	4.5	8.44e+01
Fe II	2539.6780	$3d^6 (^3H) 4s a4h ^4H_{9/2} - 3d^6 (^3H) 4p z4go ^4G_{7/2}$	4.5	7.11e+01
Fe II	2539.7620	$3d^6 (^3H) 4s a4h ^4H_{13/2} - 3d^6 (^3H) 4p z4go ^4G_{11/2}$	4.5	1.05e+02
Fe II	2541.4460	$3d^6 (^3F2) 4s b4f ^4F_{7/2} - 3d^6 (^3F2) 4p y4f ^4F_{9/2}$	4.5	1.02e+01
Fe II	2541.8689	$3d^6 (^3F2) 4s b4f ^4F_{7/2} - 3d^6 (^3F2) 4p y4f ^4F_{5/2}$	4.5	1.35e+01
Si III	2542.5859	$3s 3p ^1P_1 - 3p^2 ^1D_2$	4.6	2.02e+04
Fe II	2542.6040	$3d^6 (^3H) 4s a4h ^4H_{7/2} - 3d^6 (^3H) 4p z4go ^4G_{5/2}$	4.5	7.06e+01
Fe II	2544.1479	$3d^6 (^3H) 4s a4h ^4H_{9/2} - 3d^6 (^3H) 4p z4ho ^4H_{11/2}$	4.5	1.33e+01
Fe II	2544.2000	$3d^6 (^3F2) 4s b4f ^4F_{5/2} - 3d^6 (^3F2) 4p y4f ^4F_{3/2}$	4.5	1.01e+01
Fe II	2545.9900	$3d^6 (^3H) 4s a4h ^4H_{7/2} - 3d^6 (^3H) 4p z4ho ^4H_{9/2}$	4.5	8.03e+00

Table 1: (continued)

Ion	$\lambda$ (Å)	Transition	$T_{\max}$	Int
Ti XV	2546.0239	$2s^2 2p^4 \ ^3P_2 - 2s^2 2p^4 \ ^3P_1$	6.7	8.19e+00
Fe II	2547.4399	$3d^6 \ (^3F_2) 4s b4f \ ^4F_{7/2} - 3d^6 \ (^3F_2) 4p y4f \ ^4F_{7/2}$	4.5	7.68e+01
Fe II	2548.1089	$3d^6 \ (^3H) 4s a4h \ ^4H_{7/2} - 3d^6 \ (^3H) 4p z4go \ ^4G_{7/2}$	4.5	5.05e+00
Fe II	2549.3611	$3d^6 \ (^3H) 4s a4h \ ^4H_{9/2} - 3d^6 \ (^3H) 4p z4go \ ^4G_{9/2}$	4.5	6.36e+00
Fe II	2549.5139	$3d^6 \ (^3P_2) 4s b4p \ ^4P_{3/2} - 3d^6 \ (^3P_2) 4p y4p \ ^4P_{1/2}$	4.5	2.17e+01
Fe II	2550.1650	$3d^6 \ (^3F_2) 4s b4f \ ^4F_{3/2} - 3d^6 \ (^3F_2) 4p y4f \ ^4F_{3/2}$	4.5	4.00e+01
Fe II	2550.2310	$3d^6 \ (^3F_2) 4s b4f \ ^4F_{5/2} - 3d^6 \ (^3F_2) 4p y4f \ ^4F_{5/2}$	4.5	5.14e+01
Fe II	2551.3450	$3d^6 \ (^3H) 4s a4h \ ^4H_{11/2} - 3d^6 \ (^3H) 4p z4go \ ^4G_{11/2}$	4.5	4.82e+00
Fe II	2555.8391	$3d^6 \ (^3F_2) 4s b4f \ ^4F_{5/2} - 3d^6 \ (^3F_2) 4p y4f \ ^4F_{7/2}$	4.5	1.33e+01
Fe II	2556.2251	$3d^6 \ (^3F_2) 4s b4f \ ^4F_{3/2} - 3d^6 \ (^3F_2) 4p y4f \ ^4F_{5/2}$	4.5	9.86e+00
Mn XX	2558.7930	$2s^2 2p^2 \ ^3P_1 - 2s^2 2p^2 \ ^3P_2$	7.0	9.13e+01
Fe II	2563.3091	$3d^6 \ (^5D) 4s a4d \ ^4D_{7/2} - 3d^6 \ (^5D) 4p z4po \ ^4P_{5/2}$	4.5	2.80e+02
Fe II	2564.2490	$3d^6 \ (^5D) 4s a4d \ ^4D_{5/2} - 3d^6 \ (^5D) 4p z4po \ ^4P_{3/2}$	4.5	1.40e+02
Fe XII	2566.7749	$3s^2 3p^3 \ ^2D_{3/2} - 3s^2 3p^3 \ ^2P_{3/2}$	6.2	9.30e+01
Fe II	2567.6880	$3d^6 \ (^5D) 4s a4d \ ^4D_{3/2} - 3d^6 \ (^5D) 4p z4po \ ^4P_{1/2}$	4.5	5.43e+01
Fe II	2569.1860	$3d^6 \ (^3P_2) 4s b4p \ ^4P_{1/2} - 3d^6 \ (^3P_2) 4p y4p \ ^4P_{3/2}$	4.5	1.79e+01
Fe II	2575.1421	$3d^6 \ (^3P_2) 4s b4p \ ^4P_{5/2} - 3d^6 \ (^3P_2) 4p z4s \ ^4S_{3/2}$	4.5	2.54e+01
Fe II	2578.7000	$3d^6 \ (^5D) 4s a4d \ ^4D_{1/2} - 3d^6 \ (^5D) 4p z4po \ ^4P_{1/2}$	4.5	5.34e+01
Fe XIII	2579.8220	$3s^2 3p^2 \ ^3P_1 - 3s^2 3p^2 \ ^1D_2$	6.2	3.52e+02
Fe II	2583.3621	$3d^6 \ (^5D) 4s a4d \ ^4D_{3/2} - 3d^6 \ (^5D) 4p z4po \ ^4P_{3/2}$	4.5	6.92e+01
Fe II	2586.6550	$3d^6 \ (^5D) 4s a6d \ ^6D_{9/2} - 3d^6 \ (^5D) 4p z6do \ ^6D_{7/2}$	4.5	1.82e+02
Fe II	2588.9719	$3d^6 \ (^3P_2) 4s b4p \ ^4P_{1/2} - 3d^6 \ (^3P_2) 4p y4p \ ^4P_{1/2}$	4.5	4.09e+00
Fe II	2591.3301	$3d^6 \ (^3P_2) 4s b4p \ ^4P_{3/2} - 3d^6 \ (^3P_2) 4p y4p \ ^4P_{5/2}$	4.5	1.98e+01
Fe II	2592.3230	$3d^6 \ (^5D) 4s a4d \ ^4D_{5/2} - 3d^6 \ (^5D) 4p z4po \ ^4P_{5/2}$	4.5	6.03e+01
Fe II	2594.5090	$3d^6 \ (^5D) 4s a4d \ ^4D_{1/2} - 3d^6 \ (^5D) 4p z4po \ ^4P_{3/2}$	4.5	1.06e+01
Fe II	2599.1509	$3d^6 \ (^5D) 4s a6d \ ^6D_{7/2} - 3d^6 \ (^5D) 4p z6do \ ^6D_{5/2}$	4.5	2.48e+02
Fe II	2600.1780	$3d^6 \ (^5D) 4s a6d \ ^6D_{9/2} - 3d^6 \ (^5D) 4p z6do \ ^6D_{9/2}$	4.5	7.54e+02
Fe II	2600.9519	$3d^6 \ (^3G) 4s a4g \ ^4G_{11/2} - 3d^6 \ (^3F_2) 4p y4g \ ^4G_{11/2}$	4.5	7.76e+00
Fe II	2607.8711	$3d^6 \ (^5D) 4s a6d \ ^6D_{5/2} - 3d^6 \ (^5D) 4p z6do \ ^6D_{3/2}$	4.5	2.24e+02
Ne III	2610.8091	$2s^2 2p^3 \ (^2D) 3s \ ^3D_3 - 2s^2 2p^3 \ (^2D) 3p \ ^3F_4$	5.1	1.98e+01
Fe II	2611.8579	$3d^6 \ (^5D) 4s a4d \ ^4D_{3/2} - 3d^6 \ (^5D) 4p z4po \ ^4P_{5/2}$	4.5	6.50e+00
Ne III	2612.1980	$2s^2 2p^3 \ (^2D) 3s \ ^3D_3 - 2s^2 2p^3 \ (^2D) 3p \ ^3F_3$	5.1	1.24e+00
Fe II	2612.6589	$3d^6 \ (^5D) 4s a6d \ ^6D_{7/2} - 3d^6 \ (^5D) 4p z6do \ ^6D_{7/2}$	4.5	3.39e+02
Ne III	2614.1890	$2s^2 2p^3 \ (^2D) 3s \ ^3D_2 - 2s^2 2p^3 \ (^2D) 3p \ ^3F_3$	5.1	1.41e+01
Fe II	2614.6101	$3d^6 \ (^5D) 4s a6d \ ^6D_{3/2} - 3d^6 \ (^5D) 4p z6do \ ^6D_{1/2}$	4.5	1.44e+02
Ne III	2615.2771	$2s^2 2p^3 \ (^2D) 3s \ ^3D_2 - 2s^2 2p^3 \ (^2D) 3p \ ^3F_2$	5.1	1.39e+00
Ne III	2616.6631	$2s^2 2p^3 \ (^2D) 3s \ ^3D_1 - 2s^2 2p^3 \ (^2D) 3p \ ^3F_2$	5.1	9.41e+00
Fe II	2618.4041	$3d^6 \ (^5D) 4s a6d \ ^6D_{5/2} - 3d^6 \ (^5D) 4p z6do \ ^6D_{5/2}$	4.5	9.63e+01
Fe II	2619.8621	$3d^6 \ (^3F_2) 4s b4f \ ^4F_{9/2} - 3d^6 \ (^3H) 4p z4go \ ^4G_{9/2}$	4.5	1.96e+00
Fe II	2621.1960	$3d^6 \ (^5D) 4s a6d \ ^6D_{3/2} - 3d^6 \ (^5D) 4p z6do \ ^6D_{3/2}$	4.5	4.03e+00
Fe II	2621.4829	$3d^6 \ (^3F_2) 4s b4f \ ^4F_{7/2} - 3d^6 \ (^3H) 4p z4go \ ^4G_{7/2}$	4.5	2.68e+00
Fe II	2621.6860	$3d^6 \ (^3G) 4s a4g \ ^4G_{9/2} - 3d^6 \ (^3F_2) 4p y4g \ ^4G_{9/2}$	4.5	5.63e+00
Fe II	2622.4570	$3d^6 \ (^5D) 4s a6d \ ^6D_{1/2} - 3d^6 \ (^5D) 4p z6do \ ^6D_{1/2}$	4.5	4.06e+01
Fe II	2624.5120	$3d^6 \ (^3F_2) 4s b4f \ ^4F_{5/2} - 3d^6 \ (^3H) 4p z4go \ ^4G_{5/2}$	4.5	2.52e+00
Fe II	2626.4561	$3d^6 \ (^5D) 4s a6d \ ^6D_{7/2} - 3d^6 \ (^5D) 4p z6do \ ^6D_{9/2}$	4.5	1.65e+02
Fe II	2627.4861	$3d^6 \ (^3G) 4s a4g \ ^4G_{7/2} - 3d^6 \ (^3F_2) 4p y4g \ ^4G_{7/2}$	4.5	4.35e+00
Fe II	2629.0830	$3d^6 \ (^5D) 4s a6d \ ^6D_{1/2} - 3d^6 \ (^5D) 4p z6do \ ^6D_{3/2}$	4.5	1.41e+02
Fe II	2629.3701	$3d^6 \ (^3G) 4s a4g \ ^4G_{5/2} - 3d^6 \ (^3F_2) 4p y4g \ ^4G_{5/2}$	4.5	3.58e+00
Mg VII	2629.9231	$2s^2 2p^2 \ ^3P_2 - 2s^2 2p^2 \ ^1D_2$	5.8	8.33e+00



Table 1: (continued)

Ion	$\lambda$ (Å)	Transition	$T_{\max}$	Int
Fe II	2630.3779	$3d^6 (^3F_2) 4s b4f ^4F_{5/2} - 3d^6 (^3H) 4p z4go ^4G_{7/2}$	4.5	1.68e+01
Fe II	2630.8611	$3d^6 (^3F_2) 4s b4f ^4F_{3/2} - 3d^6 (^3H) 4p z4go ^4G_{5/2}$	4.5	1.55e+01
Fe II	2631.8000	$3d^6 (^3F_2) 4s b4f ^4F_{7/2} - 3d^6 (^3H) 4p z4go ^4G_{9/2}$	4.5	2.12e+01
Fe II	2631.8369	$3d^6 (^5D) 4s a6d ^6D_{3/2} - 3d^6 (^5D) 4p z6do ^6D_{5/2}$	4.5	2.20e+02
Fe II	2632.1130	$3d^6 (^5D) 4s a6d ^6D_{5/2} - 3d^6 (^5D) 4p z6do ^6D_{7/2}$	4.5	2.36e+02
Fe II	2632.3979	$3d^6 (^3F_2) 4s b4f ^4F_{9/2} - 3d^6 (^3H) 4p z4go ^4G_{11/2}$	4.5	2.79e+01
Ne III	2639.4829	$2s^2 2p^3 (^2P) 3s ^3P_2 - 2s^2 2p^3 (^2P) 3p ^3P_2$	5.1	2.15e+01
Ne III	2639.9780	$2s^2 2p^3 (^2P) 3s ^3P_2 - 2s^2 2p^3 (^2P) 3p ^3P_1$	5.1	7.11e+00
Ne III	2641.3479	$2s^2 2p^3 (^2P) 3s ^3P_1 - 2s^2 2p^3 (^2P) 3p ^3P_2$	5.1	6.67e+00
Ne III	2641.3479	$2s^2 2p^3 (^2P) 3s ^3P_1 - 2s^2 2p^3 (^2P) 3p ^3P_0$	5.1	5.78e+00
Ne III	2641.8430	$2s^2 2p^3 (^2P) 3s ^3P_1 - 2s^2 2p^3 (^2P) 3p ^3P_1$	5.1	4.51e+00
Fe II	2641.9150	$3d^6 (^3P_2) 4s b4p ^4P_{3/2} - 3d^6 (^3P_2) 4p z4s ^4S_{3/2}$	4.5	1.53e+01
Ne III	2643.0239	$2s^2 2p^3 (^2P) 3s ^3P_0 - 2s^2 2p^3 (^2P) 3p ^3P_1$	5.1	5.61e+00
Fe XI	2649.4600	$3s^2 3p^4 ^3P_2 - 3s^2 3p^4 ^1D_2$	6.1	2.24e+02
S III	2659.9619	$3s^2 3p 4p ^1P_1 - 3s^2 3p 4d ^1D_2$	4.9	9.42e+00
Fe XX	2666.0317	$2s^2 2p^3 ^2D_{3/2} - 2s^2 2p^3 ^2D_{5/2}$	7.0	4.34e+03
Al II	2669.9480	$3s^2 ^1S_0 - 3s 3p ^3P_1$	4.5	6.89e+02
Ne III	2678.6960	$2s^2 2p^3 (^4S) 3s ^3S_1 - 2s^2 2p^3 (^4S) 3p ^3P_2$	5.1	4.34e+01
Ne III	2678.6960	$2s^2 2p^3 (^4S) 3s ^3S_1 - 2s^2 2p^3 (^4S) 3p ^3P_0$	5.1	8.70e+00
Ne III	2679.4360	$2s^2 2p^3 (^4S) 3s ^3S_1 - 2s^2 2p^3 (^4S) 3p ^3P_1$	5.1	2.61e+01
Fe II	2684.3091	$3d^6 (^3P_2) 4s b4p ^4P_{1/2} - 3d^6 (^3P_2) 4p z4s ^4S_{3/2}$	4.5	7.16e+00
Fe II	2693.6379	$3d^6 (^5D) 4s a4d ^4D_{7/2} - 3d^6 (^5D) 4p z4fo ^4F_{5/2}$	4.5	3.38e+00
Fe II	2710.1890	$3d^6 (^5D) 4s a4d ^4D_{5/2} - 3d^6 (^5D) 4p z4fo ^4F_{3/2}$	4.5	4.48e+00
Fe II	2715.2229	$3d^6 (^5D) 4s a4d ^4D_{7/2} - 3d^6 (^5D) 4p z4do ^4D_{5/2}$	4.5	6.41e+01
Fe II	2717.5071	$3d^6 (^5D) 4s a4d ^4D_{7/2} - 3d^6 (^5D) 4p z4fo ^4F_{7/2}$	4.5	6.64e+01
Fe II	2719.4509	$3d^6 (^3F_1) 4s c4f ^4F_{9/2} - 3d^6 (^3P_1) 4p v4d ^4D_{7/2}$	4.5	1.11e+00
Fe II	2722.6250	$3d^6 (^3G) 4s a4g ^4G_{11/2} - 3d^6 (^3F_2) 4p y4f ^4F_{9/2}$	4.5	4.85e+00
Si VIII	2723.9839	$2s^2 2p^3 ^2D_{3/2} - 2s^2 2p^3 ^2P_{3/2}$	5.9	2.09e+01
Fe II	2725.6960	$3d^6 (^5D) 4s a4d ^4D_{5/2} - 3d^6 (^5D) 4p z4fo ^4F_{5/2}$	4.5	8.11e+01
Fe II	2728.3521	$3d^6 (^5D) 4s a4d ^4D_{5/2} - 3d^6 (^5D) 4p z4do ^4D_{3/2}$	4.5	7.53e+01
Ca XVI	2731.4246	$2s^2 2p ^2P_{1/2} - 2s^2 2p ^2P_{3/2}$	6.7	4.01e+02
Fe II	2731.5481	$3d^6 (^5D) 4s a4d ^4D_{3/2} - 3d^6 (^5D) 4p z4fo ^4F_{3/2}$	4.5	6.08e+01
S III	2731.9180	$3s^2 3p 4p ^3D_2 - 3s^2 3p 4d ^3D_2$	4.9	2.31e+00
Fe II	2737.7810	$3d^6 (^5D) 4s a4d ^4D_{3/2} - 3d^6 (^5D) 4p z4do ^4D_{1/2}$	4.5	5.24e+01
Fe IX	2738.4131	$3s^2 3p^5 3d ^3F_3 - 3s^2 3p^5 3d ^1F_3$	5.9	1.38e+00
Fe II	2740.3630	$3d^6 (^5D) 4s a4d ^4D_{7/2} - 3d^6 (^5D) 4p z4do ^4D_{7/2}$	4.5	4.04e+02
Si VIII	2742.7371	$2s^2 2p^3 ^2D_{5/2} - 2s^2 2p^3 ^2P_{3/2}$	5.9	1.19e+01
Fe II	2744.0139	$3d^6 (^5D) 4s a4d ^4D_{1/2} - 3d^6 (^5D) 4p z4fo ^4F_{3/2}$	4.5	1.49e+02
Fe II	2747.3010	$3d^6 (^5D) 4s a4d ^4D_{3/2} - 3d^6 (^5D) 4p z4fo ^4F_{5/2}$	4.5	2.42e+02
Fe II	2747.8000	$3d^6 (^5D) 4s a4d ^4D_{5/2} - 3d^6 (^5D) 4p z4do ^4D_{5/2}$	4.5	1.84e+02
Fe II	2749.9990	$3d^6 (^5D) 4s a4d ^4D_{3/2} - 3d^6 (^5D) 4p z4do ^4D_{3/2}$	4.5	8.34e+01
Fe II	2750.1389	$3d^6 (^5D) 4s a4d ^4D_{5/2} - 3d^6 (^5D) 4p z4fo ^4F_{7/2}$	4.5	3.81e+02
Fe II	2750.3040	$3d^6 (^5D) 4s a4d ^4D_{1/2} - 3d^6 (^5D) 4p z4do ^4D_{1/2}$	4.5	5.15e+01
Fe II	2756.5569	$3d^6 (^5D) 4s a4d ^4D_{7/2} - 3d^6 (^5D) 4p z4fo ^4F_{9/2}$	4.5	1.53e+02
S III	2757.7061	$3s^2 3p 4p ^3D_3 - 3s^2 3p 4d ^3D_3$	4.9	3.23e+00
Fe II	2757.8501	$3d^6 (^3G) 4s a4g ^4G_{9/2} - 3d^6 (^3F_2) 4p y4f ^4F_{7/2}$	4.5	3.63e+00
Fe II	2762.6350	$3d^6 (^5D) 4s a4d ^4D_{1/2} - 3d^6 (^5D) 4p z4do ^4D_{3/2}$	4.5	5.12e+01
Fe II	2763.2690	$3d^6 (^3G) 4s a4g ^4G_{5/2} - 3d^6 (^3F_2) 4p y4f ^4F_{3/2}$	4.5	2.02e+00
Fe II	2764.7319	$3d^6 (^3G) 4s a4g ^4G_{7/2} - 3d^6 (^3F_2) 4p y4f ^4F_{5/2}$	4.5	2.68e+00

Table 1: (continued)

Ion	$\lambda$ (Å)	Transition	$T_{\max}$	Int
Si VIII	2765.0330	$2s^2 2p^3 {}^2D_{3/2} - 2s^2 2p^3 {}^2P_{1/2}$	5.9	9.18e+00
Fe II	2769.7581	$3d^6 ({}^5D) 4s a4d {}^4D_{3/2} - 3d^6 ({}^5D) 4p z4do {}^4D_{5/2}$	4.5	7.27e+01
Fe II	2773.5500	$3d^6 ({}^5D) 4s a4d {}^4D_{5/2} - 3d^6 ({}^5D) 4p z4do {}^4D_{7/2}$	4.5	6.39e+01
S III	2776.1179	$3s^2 3p 4s {}^3P_1 - 3s^2 3p 4p {}^1S_0$	4.8	1.08e+00
Ne III	2778.4690	$2s^2 2p^3 ({}^2D) 3s {}^3D_3 - 2s^2 2p^3 ({}^2D) 3p {}^3D_3$	5.1	1.06e+01
O V	2781.8269	$2s 3s {}^3S_1 - 2s 3p {}^3P_2$	5.4	1.57e+02
Mg V	2783.5769	$2s^2 2p^4 {}^3P_2 - 2s^2 2p^4 {}^1D_2$	5.4	5.33e+00
Ne III	2783.8579	$2s^2 2p^3 ({}^2D) 3s {}^3D_3 - 2s^2 2p^3 ({}^2D) 3p {}^3D_2$	5.1	1.32e+00
Ne III	2786.1201	$2s^2 2p^3 ({}^2D) 3s {}^3D_2 - 2s^2 2p^3 ({}^2D) 3p {}^3D_2$	5.1	5.93e+00
Ne III	2786.9839	$2s^2 2p^3 ({}^2D) 3s {}^3D_2 - 2s^2 2p^3 ({}^2D) 3p {}^3D_1$	5.1	1.28e+00
O V	2787.8140	$2s 3s {}^3S_1 - 2s 3p {}^3P_1$	5.4	6.08e+01
Ne III	2788.5581	$2s^2 2p^3 ({}^2D) 3s {}^3D_1 - 2s^2 2p^3 ({}^2D) 3p {}^3D_1$	5.1	3.78e+00
O V	2790.6689	$2s 3s {}^3S_1 - 2s 3p {}^3P_0$	5.4	3.04e+01
Mg II	2791.6050	$3p {}^2P_{1/2} - 3d {}^2D_{3/2}$	4.5	9.63e+01
Mg II	2796.3569	$3s {}^2S_{1/2} - 3p {}^2P_{3/2}$	4.5	6.52e+03
Mg II	2798.7590	$3p {}^2P_{3/2} - 3d {}^2D_{3/2}$	4.5	1.91e+01
Mg II	2798.8279	$3p {}^2P_{3/2} - 3d {}^2D_{5/2}$	4.5	1.73e+02
Mg II	2803.5359	$3s {}^2S_{1/2} - 3p {}^2P_{1/2}$	4.5	3.27e+03
Al II	2817.0139	$3s 3p {}^1P_1 - 3s 4s {}^1S_0$	4.5	1.91e+02
Ni XV	2818.8440	$3s^2 3p^2 {}^3P_2 - 3s^2 3p^2 {}^1D_2$	6.4	1.31e+01
Ni XXI	2819.3687	$2s^2 2p^4 {}^3P_0 - 2s^2 2p^4 {}^3P_1$	7.0	6.84e+00
Ne III	2823.7800	$2s^2 2p^3 ({}^2P) 3s {}^3P_2 - 2s^2 2p^3 ({}^2P) 3p {}^3D_3$	5.1	5.91e+00
Fe II	2824.1631	$3d^6 ({}^3G) 4s a4g {}^4G_{11/2} - 3d^6 ({}^3H) 4p z4ho {}^4H_{13/2}$	4.5	1.18e+01
Ne III	2825.2991	$2s^2 2p^3 ({}^2P) 3s {}^3P_1 - 2s^2 2p^3 ({}^2P) 3p {}^3D_1$	5.1	1.00e+00
Ne III	2826.1101	$2s^2 2p^3 ({}^2P) 3s {}^3P_1 - 2s^2 2p^3 ({}^2P) 3p {}^3D_2$	5.1	2.88e+00
Ne III	2826.6489	$2s^2 2p^3 ({}^2P) 3s {}^3P_0 - 2s^2 2p^3 ({}^2P) 3p {}^3D_1$	5.1	1.37e+00
S III	2826.7480	$3s^2 3p 4p {}^3D_1 - 3s^2 3p 4d {}^1D_2$	4.9	3.77e+00
C II	2837.5471	$2s 2p^2 {}^2S_{1/2} - 2s^2 3p {}^2P_{3/2}$	4.6	4.59e+03
C II	2838.4441	$2s 2p^2 {}^2S_{1/2} - 2s^2 3p {}^2P_{1/2}$	4.6	2.26e+03
Fe II	2841.1841	$3d^6 ({}^3G) 4s a4g {}^4G_{11/2} - 3d^6 ({}^3H) 4p z4go {}^4G_{11/2}$	4.5	3.35e+00
Fe II	2844.3191	$3d^6 ({}^3D) 4s b4d {}^4D_{3/2} - 3d^6 ({}^3G) 4p x4fo {}^4F_{5/2}$	4.5	1.23e+00
Fe II	2848.8931	$3d^6 ({}^3G) 4s a4g {}^4G_{5/2} - 3d^6 ({}^3H) 4p z4ho {}^4H_{7/2}$	4.5	6.04e+00
Fe II	2850.4480	$3d^6 ({}^3G) 4s a4g {}^4G_{9/2} - 3d^6 ({}^3H) 4p z4ho {}^4H_{11/2}$	4.5	1.21e+01
Ar IV	2854.4890	$3s^2 3p^3 {}^4S_{3/2} - 3s^2 3p^3 {}^2P_{3/2}$	5.0	1.41e+00
Fe II	2856.5100	$3d^6 ({}^3G) 4s a4g {}^4G_{7/2} - 3d^6 ({}^3H) 4p z4ho {}^4H_{9/2}$	4.5	7.65e+00
Fe II	2856.9929	$3d^6 ({}^3G) 4s a4g {}^4G_{9/2} - 3d^6 ({}^3H) 4p z4go {}^4G_{9/2}$	4.5	2.43e+00
Fe II	2858.0190	$3d^6 ({}^3D) 4s b4d {}^4D_{5/2} - 3d^6 ({}^3G) 4p x4fo {}^4F_{7/2}$	4.5	1.84e+00
Fe II	2858.2649	$3d^6 ({}^3G) 4s a4g {}^4G_{5/2} - 3d^6 ({}^3H) 4p z4go {}^4G_{5/2}$	4.5	1.99e+00
Fe II	2859.1780	$3d^6 ({}^3G) 4s a4g {}^4G_{7/2} - 3d^6 ({}^3H) 4p z4go {}^4G_{7/2}$	4.5	1.95e+00
S III	2881.8569	$3s^2 3p 4p {}^3P_2 - 3s^2 3p 4d {}^3P_2$	4.9	2.27e+00
Cr XIX	2886.0081	$2s^2 2p^2 {}^3P_1 - 2s^2 2p^2 {}^3P_2$	6.9	2.50e+02
Fe II	2896.0730	$3d^6 ({}^3D) 4s b4d {}^4D_{7/2} - 3d^6 ({}^3G) 4p x4fo {}^4F_{9/2}$	4.5	2.46e+00
Fe XII	2904.6970	$3s^2 3p^3 {}^2D_{5/2} - 3s^2 3p^3 {}^2P_{3/2}$	6.2	3.33e+01
S III	2910.3579	$3s^2 3p 4s {}^1P_1 - 3s^2 3p 4p {}^1S_0$	4.8	1.66e+01
Mg V	2928.9441	$2s^2 2p^4 {}^3P_1 - 2s^2 2p^4 {}^1D_2$	5.4	1.45e+00
Mg II	2929.4951	$3p {}^2P_{1/2} - 4s {}^2S_{1/2}$	4.5	3.87e+01
Fe X	2934.5310	$3s^2 3p^4 ({}^3P) 3d {}^4D_{7/2} - 3s^2 3p^4 ({}^3P) 3d {}^4F_{7/2}$	6.0	3.49e+00
S III	2935.3970	$3s^2 3p 4p {}^3S_1 - 3s^2 3p 4d {}^3P_1$	4.9	2.28e+00
Mg II	2937.3740	$3p {}^2P_{3/2} - 4s {}^2S_{1/2}$	4.5	7.71e+01

Table 1: (continued)

Ion	$\lambda$ (Å)	Transition	$T_{\max}$	Int
Fe II	2945.2629	$3d^7 a4p^4 P_{3/2} - 3d^6 (^5D) 4p z4po^4 P_{1/2}$	4.5	2.14e+01
He I	2945.9651	$1s 2s^3 S_1 - 1s 5p^3 P_0$	4.5	8.44e+01
He I	2945.9700	$1s 2s^3 S_1 - 1s 5p^3 P_1$	4.5	2.53e+02
He I	2945.9709	$1s 2s^3 S_1 - 1s 5p^3 P_2$	4.5	4.22e+02
Fe II	2948.5210	$3d^7 a4p^4 P_{5/2} - 3d^6 (^5D) 4p z4po^4 P_{3/2}$	4.5	2.35e+01
S III	2949.1970	$3s^2 3p 4p^3 P_0 - 3s^2 3p 4d^3 D_1$	4.9	1.75e+00
S III	2951.0859	$3s^2 3p 4p^3 P_1 - 3s^2 3p 4d^3 D_2$	4.9	5.73e+00
S III	2953.7529	$3s^2 3p 4p^3 S_1 - 3s^2 3p 4d^3 P_2$	4.9	2.38e+00
O III	2960.5591	$2s^2 2p 3p^1 P_1 - 2s^2 2p 3d^1 D_2$	5.1	1.41e+01
Fe II	2965.4951	$3d^7 a4p^4 P_{1/2} - 3d^6 (^5D) 4p z4po^4 P_{1/2}$	4.5	4.17e+00
S III	2965.6479	$3s^2 3p 4p^3 P_2 - 3s^2 3p 4d^3 D_3$	4.9	6.62e+00
Fe II	2965.9041	$3d^7 a4p^4 P_{3/2} - 3d^6 (^5D) 4p z4po^4 P_{3/2}$	4.5	6.80e+00
Ne V	2974.0720	$2s^2 2p^2 ^1 D_2 - 2s^2 2p^2 ^1 S_0$	5.5	3.38e+00
O III	2984.4839	$2s^2 2p 3p^1 P_1 - 2s^2 2p 3d^3 F_2$	5.1	5.49e+00
O III	2984.6509	$2s^2 2p 3s^1 P_1 - 2s^2 2p 3p^1 D_2$	5.1	4.38e+02
Fe II	2985.7009	$3d^7 a4p^4 P_{5/2} - 3d^6 (^5D) 4p z4po^4 P_{5/2}$	4.5	5.46e+01
Fe II	2986.4209	$3d^7 a4p^4 P_{1/2} - 3d^6 (^5D) 4p z4po^4 P_{3/2}$	4.5	2.07e+01
O III	2997.3550	$2s^2 2p 3p^3 D_1 - 2s^2 2p 3d^3 D_1$	5.1	1.44e+00
Fe IX	3002.4890	$3s^2 3p^5 3d^3 F_3 - 3s^2 3p^5 3d^3 D_2$	5.9	5.06e+00
Fe II	3003.5259	$3d^7 a4p^4 P_{3/2} - 3d^6 (^5D) 4p z4po^4 P_{5/2}$	4.5	2.28e+01
O III	3005.2200	$2s^2 2p 3p^3 D_2 - 2s^2 2p 3d^3 D_2$	5.1	2.30e+00
O III	3018.4951	$2s^2 2p 3p^3 D_3 - 2s^2 2p 3d^3 D_3$	5.1	4.02e+00
Fe X	3020.9661	$3s^2 3p^4 (^3P) 3d^4 F_{9/2} - 3s^2 3p^4 (^1D) 3d^2 G_{9/2}$	6.0	1.44e+01
O III	3024.3059	$2s^2 2p 3s^3 P_1 - 2s^2 2p 3p^3 P_2$	5.1	3.50e+02
O III	3025.4209	$2s^2 2p 3s^3 P_0 - 2s^2 2p 3p^3 P_1$	5.1	2.79e+02
S IV	3030.1931	$3s^2 3d^2 D_{5/2} - 3p^3 ^2 D_{5/2}$	5.0	1.35e+00
O III	3036.2981	$2s^2 2p 3s^3 P_1 - 2s^2 2p 3p^3 P_1$	5.1	2.09e+02
O III	3042.9529	$2s^2 2p 3s^3 P_1 - 2s^2 2p 3p^3 P_0$	5.1	2.81e+02
O III	3047.9851	$2s^2 2p 3s^3 P_2 - 2s^2 2p 3p^3 P_2$	5.1	1.06e+03
O III	3060.1660	$2s^2 2p 3s^3 P_2 - 2s^2 2p 3p^3 P_1$	5.1	3.59e+02
O IV	3064.3181	$2s^2 3s^2 S_{1/2} - 2s^2 3p^2 P_{3/2}$	5.3	1.73e+02
Fe XII	3072.0649	$3s^2 3p^3 ^2 D_{3/2} - 3s^2 3p^3 ^2 P_{1/2}$	6.2	2.49e+01
O IV	3072.4919	$2s^2 3s^2 S_{1/2} - 2s^2 3p^2 P_{1/2}$	5.3	8.63e+01
Si III	3087.1311	$3s 3d^3 D_3 - 3s 4p^3 P_2$	4.7	4.31e+02
Si III	3087.3311	$3s 3d^3 D_2 - 3s 4p^3 P_2$	4.7	7.69e+01
Si III	3087.5601	$3s 3d^3 D_1 - 3s 4p^3 P_2$	4.7	5.13e+00
Si III	3094.3240	$3s 3d^3 D_2 - 3s 4p^3 P_1$	4.7	2.06e+02
Si III	3094.5540	$3s 3d^3 D_1 - 3s 4p^3 P_1$	4.7	6.87e+01
Si III	3097.7271	$3s 3d^3 D_1 - 3s 4p^3 P_0$	4.7	1.00e+02
S IV	3098.1721	$3s^2 4s^2 S_{1/2} - 3s^2 4p^2 P_{3/2}$	5.0	3.55e+01
Mg II	3105.6211	$3d^2 D_{5/2} - 5f^2 F_{7/2}$	4.5	1.45e+00
Mg II	3105.7119	$3d^2 D_{3/2} - 5f^2 F_{5/2}$	4.5	1.02e+00
O III	3116.5791	$2s^2 2p 3p^3 S_1 - 2s^2 2p 3d^3 P_0$	5.1	1.49e+00
S IV	3118.5190	$3s^2 4s^2 S_{1/2} - 3s^2 4p^2 P_{1/2}$	5.0	4.22e+01
O III	3122.5391	$2s^2 2p 3p^3 S_1 - 2s^2 2p 3d^3 P_1$	5.1	4.48e+00
Fe IX	3124.0630	$3s^2 3p^5 3d^3 F_2 - 3s^2 3p^5 3d^1 F_3$	5.9	2.71e+01
O III	3133.7000	$2s^2 2p 3p^3 S_1 - 2s^2 2p 3d^3 P_2$	5.1	7.62e+00
Fe II	3136.2739	$3d^6 (^3D) 4s b4d^4 D_{5/2} - 3d^6 (^3F_2) 4p x4d^4 D_{5/2}$	4.5	1.85e+00
Ni XII	3167.5701	$3s^2 3p^4 (^3P) 3d^4 D_{7/2} - 3s^2 3p^4 (^3P) 3d^4 F_{9/2}$	6.3	1.89e+00

Table 1: (continued)

Ion	$\lambda$ (Å)	Transition	$T_{\max}$	Int
Fe II	3178.4570	$3d^6 (^3D) 4s b4d ^4D_{7/2} - 3d^6 (^3F2) 4p x4d ^4D_{7/2}$	4.5	3.71e+00
Fe II	3187.6650	$3d^7 a4p ^4P_{3/2} - 3d^6 (^5D) 4p z4do ^4D_{3/2}$	4.5	4.21e+00
He I	3188.6609	$1s 2s ^3S_1 - 1s 4p ^3P_0$	4.5	2.56e+02
He I	3188.6721	$1s 2s ^3S_1 - 1s 4p ^3P_1$	4.5	7.67e+02
He I	3188.6731	$1s 2s ^3S_1 - 1s 4p ^3P_2$	4.5	1.28e+03
Fe II	3193.8379	$3d^7 a4p ^4P_{5/2} - 3d^6 (^5D) 4p z4do ^4D_{5/2}$	4.5	3.61e+00
Fe II	3194.7280	$3d^7 a4p ^4P_{1/2} - 3d^6 (^5D) 4p z4do ^4D_{1/2}$	4.5	3.22e+00
He II	3203.8789	$3p ^2P_{1/2} - 5d ^2D_{3/2}$	4.9	4.74e+01
He II	3203.8921	$3s ^2S_{1/2} - 5p ^2P_{3/2}$	4.9	2.34e+01
He II	3203.9150	$3p ^2P_{1/2} - 5s ^2S_{1/2}$	4.9	3.82e+01
He II	3203.9309	$3s ^2S_{1/2} - 5p ^2P_{1/2}$	4.9	1.17e+01
He II	3204.0430	$3p ^2P_{3/2} - 5d ^2D_{5/2}$	4.9	8.52e+01
He II	3204.0559	$3p ^2P_{3/2} - 5d ^2D_{3/2}$	4.9	9.47e+00
He II	3204.0911	$3p ^2P_{3/2} - 5s ^2S_{1/2}$	4.9	7.65e+01
He II	3204.0940	$3d ^2D_{3/2} - 5p ^2P_{1/2}$	4.9	1.07e+00
He II	3204.1169	$3d ^2D_{5/2} - 5p ^2P_{3/2}$	4.9	1.92e+00
Fe II	3211.3770	$3d^7 a4p ^4P_{1/2} - 3d^6 (^5D) 4p z4do ^4D_{3/2}$	4.5	3.19e+00
Fe II	3214.2429	$3d^7 a4p ^4P_{3/2} - 3d^6 (^5D) 4p z4do ^4D_{5/2}$	4.5	8.21e+00
Fe II	3228.6799	$3d^7 a4p ^4P_{5/2} - 3d^6 (^5D) 4p z4do ^4D_{7/2}$	4.5	1.67e+01
S III	3234.9529	$3s^2 3p 3d ^3P_2 - 3s^2 3p 4p ^3S_1$	4.8	3.74e+00
Fe II	3238.7600	$3d^6 (^3D) 4s b4d ^4D_{1/2} - 3d^6 (^3F2) 4p y4f ^4F_{3/2}$	4.5	1.10e+00
Mn XIX	3240.9661	$2s^2 2p^3 ^2D_{3/2} - 2s^2 2p^3 ^2D_{5/2}$	6.9	4.30e+00
Fe II	3248.1169	$3d^6 (^3D) 4s b4d ^4D_{3/2} - 3d^6 (^3F2) 4p y4f ^4F_{5/2}$	4.5	1.74e+00
S III	3248.5090	$3s^2 3p 4p ^1S_0 - 3s^2 3p 4d ^1P_1$	4.9	4.82e+00
Fe II	3259.7161	$3d^6 (^3D) 4s b4d ^4D_{5/2} - 3d^6 (^3F2) 4p y4f ^4F_{7/2}$	4.5	2.64e+00
Fe II	3259.9971	$3d^6 (^3D) 4s b4d ^4D_{7/2} - 3d^6 (^3F2) 4p y4f ^4F_{9/2}$	4.5	3.72e+00
O III	3261.7981	$2s^2 2p 3p ^3D_2 - 2s^2 2p 3d ^3F_3$	5.1	2.75e+02
O III	3266.2690	$2s^2 2p 3p ^3D_3 - 2s^2 2p 3d ^3F_4$	5.1	4.49e+02
O III	3268.1470	$2s^2 2p 3p ^3D_1 - 2s^2 2p 3d ^3F_2$	5.1	1.06e+02
O III	3282.7791	$2s^2 2p 3p ^3D_2 - 2s^2 2p 3d ^3F_2$	5.1	1.87e+01
O III	3285.3940	$2s^2 2p 3p ^3D_3 - 2s^2 2p 3d ^3F_3$	5.1	3.04e+01
O III	3300.3369	$2s^2 2p 3s ^3P_0 - 2s^2 2p 3p ^3S_1$	5.0	4.93e+00
S III	3306.1311	$3s^2 3p 4s ^3P_1 - 3s^2 3p 4p ^1D_2$	4.8	6.05e+00
O III	3313.2849	$2s^2 2p 3s ^3P_1 - 2s^2 2p 3p ^3S_1$	5.0	1.42e+01
S III	3324.9490	$3s^2 3p 3d ^3P_1 - 3s^2 3p 4p ^3P_2$	4.8	2.22e+01
S III	3325.8230	$3s^2 3p 3d ^3P_2 - 3s^2 3p 4p ^3P_2$	4.8	8.21e+01
Ca XII	3328.7900	$2s^2 2p^5 ^2P_{3/2} - 2s^2 2p^5 ^2P_{1/2}$	6.3	1.78e+01
S IV	3341.3420	$3s^2 4s ^2S_{1/2} - 3p^3 ^2P_{1/2}$	5.0	9.17e+00
O III	3341.7261	$2s^2 2p 3s ^3P_2 - 2s^2 2p 3p ^3S_1$	5.0	2.14e+01
S IV	3342.4260	$3s^2 4s ^2S_{1/2} - 3p^3 ^2P_{3/2}$	5.0	4.98e+00
Ne III	3343.3860	$2s^2 2p^4 ^1D_2 - 2s^2 2p^4 ^1S_0$	5.0	5.22e+00
Fe IX	3355.4351	$3s^2 3p^5 3d ^3F_4 - 3s^2 3p^5 3d ^3D_3$	5.9	1.25e+00
S III	3368.1311	$3s^2 3p 3d ^3P_0 - 3s^2 3p 4p ^3P_1$	4.8	1.56e+01
S III	3370.4351	$3s^2 3p 3d ^3P_1 - 3s^2 3p 4p ^3P_1$	4.8	1.47e+01
S III	3371.3340	$3s^2 3p 3d ^3P_2 - 3s^2 3p 4p ^3P_1$	4.8	1.88e+01
Ti XVII	3371.7781	$2s^2 2p^2 ^3P_0 - 2s^2 2p^2 ^3P_1$	6.8	3.90e+01
S III	3388.0779	$3s^2 3p 3d ^3P_1 - 3s^2 3p 4p ^3P_0$	4.8	1.64e+01
Fe XIII	3389.6880	$3s^2 3p^2 ^3P_2 - 3s^2 3p^2 ^1D_2$	6.2	3.22e+02
O IV	3404.5200	$2s^2 3p ^2P_{1/2} - 2s^2 3d ^2D_{3/2}$	5.3	2.81e+00

Table 1: (continued)

Ion	$\lambda$ (Å)	Transition	$T_{\max}$	Int
O IV	3412.6670	$2s^2 3p^2 P_{3/2} - 2s^2 3d^2 D_{5/2}$	5.3	5.01e+00
Ne V	3427.0110	$2s^2 2p^2 ^3P_2 - 2s^2 2p^2 ^1D_2$	5.5	2.55e+00
O III	3445.0391	$2s^2 2p 3p ^3P_2 - 2s^2 2p 3d ^3P_2$	5.1	1.70e+00
K XV	3449.4719	$2s^2 2p ^2P_{1/2} - 2s^2 2p ^2P_{3/2}$	6.6	5.65e+00
Fe X	3454.9470	$3s^2 3p^4 (^3P) 3d ^4D_{7/2} - 3s^2 3p^4 (^3P) 3d ^4F_{9/2}$	6.0	7.92e+00
Fe IX	3472.4880	$3s^2 3p^5 3d ^3F_2 - 3s^2 3p^5 3d ^3D_2$	5.9	4.79e+00
N IV	3479.7200	$2s 3s ^3S_1 - 2s 3p ^3P_2$	5.2	9.14e+01
N IV	3484.0010	$2s 3s ^3S_1 - 2s 3p ^3P_1$	5.2	3.95e+01
N IV	3485.9331	$2s 3s ^3S_1 - 2s 3p ^3P_0$	5.2	1.81e+01
Mg VI	3488.3379	$2s^2 2p^3 ^2D_{5/2} - 2s^2 2p^3 ^2P_{3/2}$	5.7	3.51e+00
Mg VI	3489.9207	$2s^2 2p^3 ^2D_{3/2} - 2s^2 2p^3 ^2P_{3/2}$	5.7	5.69e+00
S III	3498.2971	$3s^2 3p 4s ^1P_1 - 3s^2 3p 4p ^1D_2$	4.8	1.05e+02
Mg VI	3503.2468	$2s^2 2p^3 ^2D_{3/2} - 2s^2 2p^3 ^2P_{1/2}$	5.7	1.99e+00
Fe X	3533.8191	$3s^2 3p^4 (^3P) 3d ^4F_{7/2} - 3s^2 3p^4 (^1D) 3d ^2G_{7/2}$	6.0	3.17e+00
S III	3550.7129	$3s^2 3p 4p ^1D_2 - 3s^2 3p 4d ^1D_2$	4.9	1.09e+00
Fe X	3575.3870	$3s^2 3p^4 (^3P) 3d ^4F_{7/2} - 3s^2 3p^4 (^1D) 3d ^2G_{9/2}$	6.0	1.04e+00
Ni XVI	3601.0149	$3s^2 3p ^2P_{1/2} - 3s^2 3p ^2P_{3/2}$	6.4	5.67e+01
Al III	3602.6641	$3d ^2D_{5/2} - 4p ^2P_{3/2}$	4.6	7.20e+00
Al III	3613.3921	$3d ^2D_{3/2} - 4p ^2P_{1/2}$	4.6	3.91e+00
He I	3614.6790	$1s 2s ^1S_0 - 1s 5p ^1P_1$	4.5	7.40e+00
S III	3633.0410	$3s^2 3p 3d ^3P_2 - 3s^2 3p 4p ^3D_3$	4.8	1.92e+01
Ca XVII	3637.6931	$2s 2p ^3P_1 - 2s 2p ^3P_2$	6.8	2.81e+01
Fe IX	3644.0759	$3s^2 3p^5 3d ^3F_3 - 3s^2 3p^5 3d ^1D_2$	5.9	2.60e+01
S III	3657.6089	$3s^2 3p 4s ^3P_0 - 3s^2 3p 4p ^3S_1$	4.8	1.79e+00
S III	3662.9829	$3s^2 3p 4s ^3P_1 - 3s^2 3p 4p ^3S_1$	4.8	5.11e+00
O III	3708.3259	$2s^2 2p 3p ^3P_1 - 2s^2 2p 3d ^3D_2$	5.1	2.03e+00
S III	3710.4009	$3s^2 3p 3d ^3P_1 - 3s^2 3p 4p ^3D_2$	4.8	1.07e+01
S III	3711.4900	$3s^2 3p 3d ^3P_2 - 3s^2 3p 4p ^3D_2$	4.8	2.12e+00
O III	3716.1470	$2s^2 2p 3p ^3P_2 - 2s^2 2p 3d ^3D_3$	5.1	3.58e+00
S III	3718.7771	$3s^2 3p 4s ^3P_2 - 3s^2 3p 4p ^3S_1$	4.8	4.52e+00
O IV	3737.9121	$2s 2p (^3P) 3p ^4D_{7/2} - 2s 2p (^3P) 3d ^4F_{9/2}$	5.3	4.92e+01
S III	3748.9341	$3s^2 3p 3d ^3P_0 - 3s^2 3p 4p ^3D_1$	4.8	4.87e+00
S III	3751.7891	$3s^2 3p 3d ^3P_1 - 3s^2 3p 4p ^3D_1$	4.8	2.66e+00
O III	3755.7629	$2s^2 2p 3s ^3P_1 - 2s^2 2p 3p ^3D_2$	5.1	1.71e+02
O III	3758.2991	$2s^2 2p 3s ^3P_0 - 2s^2 2p 3p ^3D_1$	5.0	6.31e+01
O III	3760.9451	$2s^2 2p 3s ^3P_2 - 2s^2 2p 3p ^3D_3$	5.1	3.38e+02
Fe II	3765.1809	$3d^6 (^3P_2) 4s b4p ^4P_{5/2} - 3d^6 (^5D) 4p z4po ^4P_{3/2}$	4.5	1.76e+00
O III	3775.0991	$2s^2 2p 3s ^3P_1 - 2s^2 2p 3p ^3D_1$	5.0	4.51e+01
S III	3779.9260	$3s^2 3p 4s ^3P_1 - 3s^2 3p 4p ^3P_2$	4.8	2.44e+00
O III	3792.3501	$2s^2 2p 3s ^3P_2 - 2s^2 2p 3p ^3D_2$	5.1	5.28e+01
S III	3795.7219	$3s^2 3p 3d ^3D_2 - 3s^2 3p 4p ^3S_1$	4.8	7.79e+00
Fe IX	3802.0940	$3s^2 3p^5 3d ^3F_3 - 3s^2 3p^5 3d ^3D_3$	5.9	1.43e+01
O III	3812.0649	$2s^2 2p 3s ^3P_2 - 2s^2 2p 3p ^3D_1$	5.0	2.85e+00
Fe II	3826.0210	$3d^6 (^3P_2) 4s b4p ^4P_{5/2} - 3d^6 (^5D) 4p z4po ^4P_{5/2}$	4.5	4.03e+00
S III	3832.9209	$3s^2 3p 4s ^3P_0 - 3s^2 3p 4p ^3P_1$	4.8	2.93e+00
Ti XVII	3835.5400	$2s^2 2p^2 ^3P_1 - 2s^2 2p^2 ^3P_2$	6.8	1.65e+01
S III	3838.8230	$3s^2 3p 4s ^3P_1 - 3s^2 3p 4p ^3P_1$	4.8	5.07e+00
S III	3839.3679	$3s^2 3p 4s ^3P_2 - 3s^2 3p 4p ^3P_2$	4.8	1.35e+01
Mg II	3849.3091	$3d ^2D_{5/2} - 5p ^2P_{3/2}$	4.5	1.56e+00

Table 1: (continued)

Ion	$\lambda$ (Å)	Transition	$T_{\max}$	Int
Si II	3854.7749	$3s 3p^2 \ ^2D_{3/2} - 3s^2 4p \ ^2P_{3/2}$	4.5	1.90e+01
Si II	3857.1250	$3s 3p^2 \ ^2D_{5/2} - 3s^2 4p \ ^2P_{3/2}$	4.5	1.71e+02
Si II	3863.7109	$3s 3p^2 \ ^2D_{3/2} - 3s^2 4p \ ^2P_{1/2}$	4.5	9.49e+01
Ne III	3869.8491	$2s^2 2p^4 \ ^3P_2 - 2s^2 2p^4 \ ^1D_2$	4.9	2.53e+00
Fe II	3873.8711	$3d^6 \ (^3P_2) 4s 4p \ ^4P_{3/2} - 3d^6 \ (^5D) 4p \ z4po \ ^4P_{1/2}$	4.5	1.42e+00
He I	3889.7141	$1s 2s \ ^3S_1 - 1s 3p \ ^3P_0$	4.5	1.17e+03
He I	3889.7549	$1s 2s \ ^3S_1 - 1s 3p \ ^3P_1$	4.5	3.51e+03
He I	3889.7581	$1s 2s \ ^3S_1 - 1s 3p \ ^3P_2$	4.5	5.83e+03
S III	3900.1460	$3s^2 3p 4s \ ^3P_2 - 3s^2 3p 4p \ ^3P_1$	4.8	2.45e+00
Al II	3901.7791	$3s 3p \ ^1P_1 - 3p^2 \ ^1D_2$	4.5	6.80e+02
S III	3929.6831	$3s^2 3p 3d \ ^3D_3 - 3s^2 3p 4p \ ^3P_2$	4.8	1.66e+01
S III	3962.6621	$3s^2 3p 3d \ ^3D_1 - 3s^2 3p 4p \ ^3P_1$	4.8	1.46e+00
O III	3962.6960	$2s^2 2p 3p \ ^1D_2 - 2s^2 2p 3d \ ^1F_3$	5.1	2.88e+00
He I	3965.8579	$1s 2s \ ^1S_0 - 1s 4p \ ^1P_1$	4.5	2.75e+01
O III	3966.2620	$2s^2 2p 3s \ ^1P_1 - 2p^4 \ ^1D_2$	5.0	2.27e+00
Fe II	3975.2981	$3d^6 \ (^3P_2) 4s 4p \ ^4P_{3/2} - 3d^6 \ (^5D) 4p \ z4po \ ^4P_{5/2}$	4.5	1.48e+00
S III	3984.8650	$3s^2 3p 3d \ ^3D_2 - 3s^2 3p 4p \ ^3P_1$	4.8	4.13e+00
S III	3987.0720	$3s^2 3p 3d \ ^3D_1 - 3s^2 3p 4p \ ^3P_0$	4.8	3.55e+00
Fe XI	3987.9319	$3s^2 3p^4 \ ^3P_1 - 3s^2 3p^4 \ ^1D_2$	6.1	1.51e+01
S III	3999.0649	$3s 3p^3 \ ^1D_2 - 3s^2 3p 4p \ ^1D_2$	4.8	3.07e+00
Fe II	4003.2219	$3d^6 \ (^3P_2) 4s 4p \ ^4P_{1/2} - 3d^6 \ (^5D) 4p \ z4po \ ^4P_{3/2}$	4.5	1.27e+00
He I	4027.3301	$1s 2p \ ^3P_2 - 1s 5d \ ^3D_1$	4.5	5.23e+00
He I	4027.3311	$1s 2p \ ^3P_2 - 1s 5d \ ^3D_2$	4.5	7.36e+01
He I	4027.3311	$1s 2p \ ^3P_2 - 1s 5d \ ^3D_3$	4.5	4.20e+02
He I	4027.3420	$1s 2p \ ^3P_1 - 1s 5d \ ^3D_1$	4.5	7.86e+01
He I	4027.3440	$1s 2p \ ^3P_1 - 1s 5d \ ^3D_2$	4.5	2.21e+02
He I	4027.5020	$1s 2p \ ^3P_0 - 1s 5d \ ^3D_1$	4.5	1.05e+02
Cr XVIII	4039.7590	$2s^2 2p^3 \ ^2D_{3/2} - 2s^2 2p^3 \ ^2D_{5/2}$	6.9	9.50e+00
Ca XIII	4087.4795	$2s^2 2p^4 \ ^3P_2 - 2s^2 2p^4 \ ^3P_1$	6.4	2.60e+01
N III	4098.5122	$2s^2 3s \ ^2S_{1/2} - 2s^2 3p \ ^2P_{3/2}$	5.0	1.97e+02
N III	4104.5508	$2s^2 3s \ ^2S_{1/2} - 2s^2 3p \ ^2P_{1/2}$	5.0	9.78e+01
He I	4121.9810	$1s 2p \ ^3P_2 - 1s 5s \ ^3S_1$	4.5	2.05e+02
He I	4121.9941	$1s 2p \ ^3P_1 - 1s 5s \ ^3S_1$	4.5	1.23e+02
He I	4122.1621	$1s 2p \ ^3P_0 - 1s 5s \ ^3S_1$	4.5	4.10e+01
Ni XII	4232.0962	$3s^2 3p^5 \ ^2P_{3/2} - 3s^2 3p^5 \ ^2P_{1/2}$	6.3	2.94e+01
S III	4254.7100	$3s^2 3p 4s \ ^3P_2 - 3s^2 3p 4p \ ^3D_3$	4.8	3.37e+00
S III	4286.1128	$3s^2 3p 4s \ ^3P_1 - 3s^2 3p 4p \ ^3D_2$	4.8	4.74e+00
Fe X	4312.7612	$3s^2 3p^4 \ (^3P) 3d \ ^4F_{9/2} - 3s^2 3p^4 \ (^3P) 3d \ ^2F_{7/2}$	6.0	2.09e+00
S III	4333.8901	$3s^2 3p 4s \ ^3P_0 - 3s^2 3p 4p \ ^3D_1$	4.8	2.65e+00
Si III	4339.7212	$3p^2 \ ^1S_0 - 3s 4p \ ^1P_1$	4.8	3.82e+01
S III	4341.4370	$3s^2 3p 4s \ ^3P_1 - 3s^2 3p 4p \ ^3D_1$	4.8	1.50e+00
H I	4341.6548	$2p \ ^2P_{1/2} - 5d \ ^2D_{3/2}$	4.5	1.18e+03
H I	4341.6592	$2p \ ^2P_{1/2} - 5s \ ^2S_{1/2}$	4.5	5.03e+02
H I	4341.6611	$2s \ ^2S_{1/2} - 5p \ ^2P_{3/2}$	4.5	6.39e+02
H I	4341.6650	$2s \ ^2S_{1/2} - 5p \ ^2P_{1/2}$	4.5	3.19e+02
H I	4341.7231	$2p \ ^2P_{3/2} - 5d \ ^2D_{5/2}$	4.5	2.12e+03
H I	4341.7241	$2p \ ^2P_{3/2} - 5d \ ^2D_{3/2}$	4.5	2.36e+02
H I	4341.7290	$2p \ ^2P_{3/2} - 5s \ ^2S_{1/2}$	4.5	1.00e+03
S III	4355.7319	$3s^2 3p 3d \ ^3D_2 - 3s^2 3p 4p \ ^3D_3$	4.8	5.45e+00

Table 1: (continued)

Ion	$\lambda$ (Å)	Transition	$T_{\max}$	Int
Fe IX	4360.3569	$3s^2 3p^5 3d^3 F_2 - 3s^2 3p^5 3d^1 D_2$	5.9	1.55e+01
S III	4362.7041	$3s^2 3p 4s^3 P_2 - 3s^2 3p 4p^3 D_2$	4.8	1.92e+00
O III	4364.4360	$2s^2 2p^2^1 D_2 - 2s^2 2p^2^1 S_0$	4.9	5.18e+00
S III	4365.9058	$3s^2 3p 3d^3 D_3 - 3s^2 3p 4p^3 D_3$	4.8	1.20e+00
He I	4389.1699	$1s 2p^1 P_1 - 1s 5d^1 D_2$	4.5	1.19e+02
Ar XIV	4414.4258	$2s^2 2p^2 P_{1/2} - 2s^2 2p^2 P_{3/2}$	6.5	3.23e+02
He I	4438.8081	$1s 2p^1 P_1 - 1s 5s^1 S_0$	4.5	8.08e+01
He I	4472.7329	$1s 2p^3 P_2 - 1s 4d^3 D_1$	4.5	1.71e+01
He I	4472.7368	$1s 2p^3 P_2 - 1s 4d^3 D_2$	4.5	2.41e+02
He I	4472.7368	$1s 2p^3 P_2 - 1s 4d^3 D_3$	4.5	1.38e+03
He I	4472.7490	$1s 2p^3 P_1 - 1s 4d^3 D_1$	4.5	2.57e+02
He I	4472.7520	$1s 2p^3 P_1 - 1s 4d^3 D_2$	4.5	7.20e+02
He I	4472.9458	$1s 2p^3 P_0 - 1s 4d^3 D_1$	4.5	3.40e+02
Mg II	4482.3911	$3d^2 D_{5/2} - 4f^2 F_{7/2}$	4.5	3.10e+00
Mg II	4482.5898	$3d^2 D_{3/2} - 4f^2 F_{5/2}$	4.5	2.17e+00
Si III	4553.8882	$3s 4s^3 S_1 - 3s 4p^3 P_2$	4.7	2.52e+02
Si III	4569.1201	$3s 4s^3 S_1 - 3s 4p^3 P_1$	4.7	1.34e+02
Si III	4576.0391	$3s 4s^3 S_1 - 3s 4p^3 P_0$	4.7	4.88e+01
Fe IX	4588.5449	$3s^2 3p^5 3d^3 F_2 - 3s^2 3p^5 3d^3 D_3$	5.9	3.76e+00
N III	4635.4238	$2s^2 3p^2 P_{1/2} - 2s^2 3d^2 D_{3/2}$	5.0	2.64e+00
N III	4641.9438	$2s^2 3p^2 P_{3/2} - 2s^2 3d^2 D_{5/2}$	5.0	2.48e+00
C III	4648.7202	$2s 3s^3 S_1 - 2s 3p^3 P_2$	4.9	1.63e+03
C III	4651.5479	$2s 3s^3 S_1 - 2s 3p^3 P_1$	4.9	9.72e+02
C III	4652.7759	$2s 3s^3 S_1 - 2s 3p^3 P_0$	4.9	3.29e+02
Al II	4664.3511	$3p^2^1 D_2 - 3s 4p^1 P_1$	4.5	4.74e+01
He II	4686.6958	$3p^2 P_{1/2} - 4d^2 D_{3/2}$	4.9	1.06e+02
He II	4686.7241	$3s^2 S_{1/2} - 4p^2 P_{3/2}$	4.9	4.04e+01
He II	4686.8472	$3p^2 P_{1/2} - 4s^2 S_{1/2}$	4.9	7.95e+01
He II	4686.8892	$3s^2 S_{1/2} - 4p^2 P_{1/2}$	4.9	2.02e+01
He II	4687.0259	$3p^2 P_{3/2} - 4d^2 D_{5/2}$	4.9	1.90e+02
He II	4687.0259	$3d^2 D_{3/2} - 4f^2 F_{5/2}$	4.9	2.74e+02
He II	4687.0742	$3p^2 P_{3/2} - 4d^2 D_{3/2}$	4.9	2.11e+01
He II	4687.1289	$3d^2 D_{5/2} - 4f^2 F_{7/2}$	4.9	3.88e+02
He II	4687.1558	$3d^2 D_{5/2} - 4f^2 F_{5/2}$	4.9	1.96e+01
He II	4687.2041	$3d^2 D_{5/2} - 4p^2 P_{3/2}$	4.9	4.12e+00
He II	4687.2251	$3p^2 P_{3/2} - 4s^2 S_{1/2}$	4.9	1.59e+02
He II	4687.2388	$3d^2 D_{3/2} - 4p^2 P_{1/2}$	4.9	2.29e+00
He I	4714.4658	$1s 2p^3 P_2 - 1s 4s^3 S_1$	4.5	1.67e+02
He I	4714.4829	$1s 2p^3 P_1 - 1s 4s^3 S_1$	4.5	9.98e+01
He I	4714.7031	$1s 2p^3 P_0 - 1s 4s^3 S_1$	4.5	3.34e+01
Ne IV	4715.4331	$2s^2 2p^3^2 D_{5/2} - 2s^2 2p^3^2 P_{3/2}$	5.2	1.98e+00
Ne IV	4725.4600	$2s^2 2p^3^2 D_{3/2} - 2s^2 2p^3^2 P_{3/2}$	5.2	2.39e+00
C II	4739.2998	$2s 2p^2^2 P_{1/2} - 2s^2 3p^2 P_{1/2}$	4.6	2.07e+00
C II	4746.1021	$2s 2p^2^2 P_{3/2} - 2s^2 3p^2 P_{3/2}$	4.6	4.37e+00
Ni XVII	4757.3828	$3s 3p^3 P_1 - 3s 3p^3 P_2$	6.4	2.86e+00
S III	4804.0742	$3s^2 3p 4s^3 P_1 - 3s^2 3p 4p^1 P_1$	4.8	3.35e+00
H I	4862.6450	$2p^2 P_{1/2} - 4d^2 D_{3/2}$	4.5	2.71e+03
H I	4862.6519	$2s^2 S_{1/2} - 4p^2 P_{3/2}$	4.5	1.32e+03
H I	4862.6558	$2p^2 P_{1/2} - 4s^2 S_{1/2}$	4.5	1.19e+03

Table 1: (continued)

Ion	$\lambda$ (Å)	Transition	$T_{\max}$	Int
H I	4862.6641	$2s^2 S_{1/2} - 4p^2 P_{1/2}$	4.5	6.58e+02
H I	4862.7290	$2p^2 P_{3/2} - 4d^2 D_{5/2}$	4.5	4.13e+03
H I	4862.7319	$2p^2 P_{3/2} - 4d^2 D_{3/2}$	4.5	5.43e+02
H I	4862.7432	$2p^2 P_{3/2} - 4s^2 S_{1/2}$	4.5	2.38e+03
N II	4896.4912	$2s 2p^3 ^1D_2 - 2s^2 2p 3p ^1P_1$	4.7	7.00e+01
He I	4923.3140	$1s 2p ^1P_1 - 1s 4d ^1D_2$	4.5	5.09e+02
S II	4925.4941	$3s^2 3p^2 (^3P) 4s^4 P_{3/2} - 3s^2 3p^2 (^3P) 4p^4 P_{5/2}$	4.5	1.24e+01
S II	4926.7271	$3s^2 3p^2 (^3P) 4s^4 P_{1/2} - 3s^2 3p^2 (^3P) 4p^4 P_{3/2}$	4.5	1.08e+01
S II	4943.8618	$3s^2 3p^2 (^3P) 4s^4 P_{1/2} - 3s^2 3p^2 (^3P) 4p^4 P_{1/2}$	4.5	1.87e+00
S II	4993.3711	$3s^2 3p^2 (^3P) 4s^4 P_{3/2} - 3s^2 3p^2 (^3P) 4p^4 P_{3/2}$	4.5	2.99e+00
O III	5008.2402	$2s^2 2p^2 ^3P_2 - 2s^2 2p^2 ^1D_2$	4.9	1.62e+00
S II	5010.9731	$3s^2 3p^2 (^3P) 4s^4 P_{3/2} - 3s^2 3p^2 (^3P) 4p^4 P_{1/2}$	4.5	7.60e+00
He I	5017.0859	$1s 2s ^1S_0 - 1s 3p ^1P_1$	4.5	4.84e+01
S II	5028.6050	$3s^2 3p^2 (^3P) 3d^2 P_{3/2} - 3s^2 3p^2 (^3P) 4p^2 S_{1/2}$	4.5	1.27e+01
S II	5033.8472	$3s^2 3p^2 (^3P) 4s^4 P_{5/2} - 3s^2 3p^2 (^3P) 4p^4 P_{5/2}$	4.5	1.75e+01
He I	5049.1548	$1s 2p ^1P_1 - 1s 4s ^1S_0$	4.5	2.37e+02
S II	5104.7642	$3s^2 3p^2 (^3P) 4s^4 P_{5/2} - 3s^2 3p^2 (^3P) 4p^4 P_{3/2}$	4.5	1.06e+01
Ni XIII	5117.2451	$3s^2 3p^4 ^3P_2 - 3s^2 3p^4 ^3P_1$	6.3	1.67e+01
S II	5143.7549	$3s^2 3p^2 (^3P) 3d^2 P_{1/2} - 3s^2 3p^2 (^3P) 4p^2 S_{1/2}$	4.5	5.93e+00
S III	5161.5410	$3s^2 3p 3d ^1F_3 - 3s^2 3p 4p ^1D_2$	4.8	1.71e+01
S III	5220.7959	$3s^2 3p 4s ^1P_1 - 3s^2 3p 4p ^1P_1$	4.8	1.87e+01
Fe XIV	5304.5659	$3s^2 3p^2 P_{1/2} - 3s^2 3p^2 P_{3/2}$	6.3	9.59e+02
S III	5371.0981	$3s^2 3p 3d ^1P_1 - 3s^2 3p 4p ^1S_0$	4.8	2.36e+00
S II	5430.1738	$3s^2 3p^2 (^3P) 4s^4 P_{1/2} - 3s^2 3p^2 (^3P) 4p^4 D_{3/2}$	4.5	6.14e+00
S II	5434.3169	$3s^2 3p^2 (^3P) 4s^4 P_{3/2} - 3s^2 3p^2 (^3P) 4p^4 D_{5/2}$	4.5	1.61e+01
Ca XV	5446.0400	$2s^2 2p^2 ^3P_1 - 2s^2 2p^2 ^3P_2$	6.6	1.01e+02
S II	5455.3809	$3s^2 3p^2 (^3P) 4s^4 P_{5/2} - 3s^2 3p^2 (^3P) 4p^4 D_{7/2}$	4.5	1.44e+02
S II	5475.1450	$3s^2 3p^2 (^3P) 4s^4 P_{1/2} - 3s^2 3p^2 (^3P) 4p^4 D_{1/2}$	4.5	6.57e+00
S II	5511.2461	$3s^2 3p^2 (^3P) 4s^4 P_{3/2} - 3s^2 3p^2 (^3P) 4p^4 D_{3/2}$	4.5	9.49e+00
Ar X	5521.8208	$2s^2 2p^5 ^2P_{3/2} - 2s^2 2p^5 ^2P_{1/2}$	6.1	1.91e+01
S II	5527.7891	$3s^2 3p^2 (^3P) 3d^4 F_{7/2} - 3s^2 3p^2 (^3P) 4p^4 D_{7/2}$	4.5	8.38e+00
Fe X	5538.9390	$3s^2 3p^4 (^3P) 3d^4 F_{7/2} - 3s^2 3p^4 (^3P) 3d^2 F_{7/2}$	6.0	1.13e+00
S II	5557.5762	$3s^2 3p^2 (^3P) 4s^4 P_{3/2} - 3s^2 3p^2 (^3P) 4p^4 D_{1/2}$	4.5	1.06e+00
S II	5566.5132	$3s^2 3p^2 (^3P) 4s^4 P_{5/2} - 3s^2 3p^2 (^3P) 4p^4 D_{5/2}$	4.5	8.90e+00
S II	5580.4302	$3s^2 3p^2 (^3P) 3d^4 F_{5/2} - 3s^2 3p^2 (^3P) 4p^4 D_{5/2}$	4.5	2.30e+00
O III	5593.8091	$2s^2 2p 3s ^1P_1 - 2s^2 2p 3p ^1P_1$	5.0	3.38e+01
S II	5607.7178	$3s^2 3p^2 (^3P) 3d^4 F_{9/2} - 3s^2 3p^2 (^3P) 4p^4 D_{7/2}$	4.5	6.21e+01
S II	5618.2021	$3s^2 3p^2 (^3P) 3d^4 F_{3/2} - 3s^2 3p^2 (^3P) 4p^4 D_{3/2}$	4.5	1.68e+00
S II	5641.9219	$3s^2 3p^2 (^3P) 3d^4 F_{7/2} - 3s^2 3p^2 (^3P) 4p^4 D_{5/2}$	4.5	9.86e+00
S II	5661.5820	$3s^2 3p^2 (^3P) 3d^4 F_{5/2} - 3s^2 3p^2 (^3P) 4p^4 D_{3/2}$	4.5	6.45e+00
S II	5666.3560	$3s^2 3p^2 (^3P) 3d^4 F_{3/2} - 3s^2 3p^2 (^3P) 4p^4 D_{1/2}$	4.5	3.89e+00
N II	5668.2109	$2s^2 2p 3s ^3P_1 - 2s^2 2p 3p ^3D_2$	4.7	4.44e+01
N II	5677.6040	$2s^2 2p 3s ^3P_0 - 2s^2 2p 3p ^3D_1$	4.7	1.97e+01
N II	5681.1431	$2s^2 2p 3s ^3P_2 - 2s^2 2p 3p ^3D_3$	4.7	8.09e+01
N II	5687.8018	$2s^2 2p 3s ^3P_1 - 2s^2 2p 3p ^3D_1$	4.7	1.42e+01
Ca XV	5696.3931	$2s^2 2p^2 ^3P_0 - 2s^2 2p^2 ^3P_1$	6.6	2.01e+02
C III	5697.4932	$2s 3p ^1P_1 - 2s 3d ^1D_2$	4.9	3.80e+00
N II	5712.3579	$2s^2 2p 3s ^3P_2 - 2s^2 2p 3p ^3D_2$	4.7	1.36e+01
Si III	5741.3271	$3s 4s ^1S_0 - 3s 4p ^1P_1$	4.8	1.46e+01



Table 1: (continued)

Ion	$\lambda$ (Å)	Transition	$T_{\max}$	Int
N II	5756.2012	$2s^2 2p^2 \ ^1D_2 - 2s^2 2p^2 \ ^1S_0$	4.5	1.65e+00
He I	5877.2378	$1s 2p \ ^3P_2 - 1s 3d \ ^3D_1$	4.5	9.98e+01
He I	5877.2529	$1s 2p \ ^3P_2 - 1s 3d \ ^3D_2$	4.5	1.31e+03
He I	5877.2539	$1s 2p \ ^3P_2 - 1s 3d \ ^3D_3$	4.5	8.13e+03
He I	5877.2642	$1s 2p \ ^3P_1 - 1s 3d \ ^3D_1$	4.5	1.50e+03
He I	5877.2798	$1s 2p \ ^3P_1 - 1s 3d \ ^3D_2$	4.5	3.94e+03
He I	5877.6060	$1s 2p \ ^3P_0 - 1s 3d \ ^3D_1$	4.5	2.00e+03
Ar XV	5945.3032	$2s 2p \ ^3P_1 - 2s 2p \ ^3P_2$	6.6	2.00e+01
S II	6288.0859	$3s^2 3p^2 \ (^3P) 3d \ ^4D_{5/2} - 3s^2 3p^2 \ (^3P) 4p \ ^4P_{5/2}$	4.5	1.31e+00
S II	6307.2378	$3s^2 3p^2 \ (^3P) 3d \ ^4D_{7/2} - 3s^2 3p^2 \ (^3P) 4p \ ^4P_{5/2}$	4.5	5.68e+00
S III	6313.6611	$3s^2 3p^2 \ ^1D_2 - 3s^2 3p^2 \ ^1S_0$	4.6	1.18e+00
Si II	6348.8970	$3s^2 4s \ ^2S_{1/2} - 3s^2 4p \ ^2P_{3/2}$	4.5	1.68e+02
Si II	6373.1738	$3s^2 4s \ ^2S_{1/2} - 3s^2 4p \ ^2P_{1/2}$	4.5	8.35e+01
Fe X	6376.2910	$3s^2 3p^5 \ ^2P_{3/2} - 3s^2 3p^5 \ ^2P_{1/2}$	6.0	1.11e+02
S II	6386.6699	$3s^2 3p^2 \ (^3P) 3d \ ^4D_{3/2} - 3s^2 3p^2 \ (^3P) 4p \ ^4P_{3/2}$	4.5	1.21e+00
S II	6399.1348	$3s^2 3p^2 \ (^3P) 3d \ ^4D_{5/2} - 3s^2 3p^2 \ (^3P) 4p \ ^4P_{3/2}$	4.5	2.31e+00
S III	6420.6802	$3s 3p^3 \ ^1D_2 - 3s^2 3p 4p \ ^1P_1$	4.8	1.46e+00
O V	6467.9292	$2p 3p \ ^3D_2 - 2p 3d \ ^3F_3$	5.4	1.51e+00
N II	6483.8481	$2s^2 2p 3s \ ^1P_1 - 2s^2 2p 3p \ ^1P_1$	4.7	8.83e+01
O V	6502.0352	$2p 3p \ ^3D_3 - 2p 3d \ ^3F_4$	5.4	5.83e+00
H I	6564.5361	$2p \ ^2P_{1/2} - 3d \ ^2D_{3/2}$	4.5	1.52e+04
H I	6564.5488	$2s \ ^2S_{1/2} - 3p \ ^2P_{3/2}$	4.5	3.75e+03
H I	6564.5762	$2p \ ^2P_{1/2} - 3s \ ^2S_{1/2}$	4.5	5.96e+03
H I	6564.5962	$2s \ ^2S_{1/2} - 3p \ ^2P_{1/2}$	4.5	1.88e+03
H I	6564.6768	$2p \ ^2P_{3/2} - 3d \ ^2D_{5/2}$	4.5	2.49e+04
H I	6564.6938	$2p \ ^2P_{3/2} - 3d \ ^2D_{3/2}$	4.5	3.04e+03
H I	6564.7339	$2p \ ^2P_{3/2} - 3s \ ^2S_{1/2}$	4.5	1.19e+04
C II	6579.8828	$2s^2 3s \ ^2S_{1/2} - 2s^2 3p \ ^2P_{3/2}$	4.6	1.98e+03
C II	6584.7090	$2s^2 3s \ ^2S_{1/2} - 2s^2 3p \ ^2P_{1/2}$	4.6	1.00e+03
K XIV	6672.4619	$2s^2 2p^2 \ ^3P_1 - 2s^2 2p^2 \ ^3P_2$	6.6	1.56e+00
He I	6680.0078	$1s 2p \ ^1P_1 - 1s 3d \ ^1D_2$	4.5	1.59e+03
Ni XV	6703.5479	$3s^2 3p^2 \ ^3P_0 - 3s^2 3p^2 \ ^3P_1$	6.4	2.00e+01
Ar XI	6918.0210	$2s^2 2p^4 \ ^3P_2 - 2s^2 2p^4 \ ^3P_1$	6.3	2.19e+01
S II	6983.3359	$3s^2 3p^2 \ (^3P) 3d \ ^4D_{7/2} - 3s^2 3p^2 \ (^3P) 4p \ ^4D_{7/2}$	4.5	3.77e+00
Al II	7044.0249	$3s 4s \ ^3S_1 - 3s 4p \ ^3P_2$	4.5	4.97e+01
Fe XIX	7046.7324	$2s^2 2p^4 \ ^3P_0 - 2s^2 2p^4 \ ^3P_1$	7.0	1.63e+01
Al II	7058.6572	$3s 4s \ ^3S_1 - 3s 4p \ ^3P_1$	4.5	2.96e+01
Fe XV	7062.1470	$3s 3p \ ^3P_1 - 3s 3p \ ^3P_2$	6.4	1.68e+02
Al II	7065.6279	$3s 4s \ ^3S_1 - 3s 4p \ ^3P_0$	4.5	9.92e+00
He I	7067.1401	$1s 2p \ ^3P_2 - 1s 3s \ ^3S_1$	4.5	4.96e+03
He I	7067.1782	$1s 2p \ ^3P_1 - 1s 3s \ ^3S_1$	4.5	2.98e+03
He I	7067.6709	$1s 2p \ ^3P_0 - 1s 3s \ ^3S_1$	4.5	9.92e+02
He I	7283.3711	$1s 2p \ ^1P_1 - 1s 3s \ ^1S_0$	4.5	1.16e+03
O II	7320.9531	$2s^2 2p^3 \ ^2D_{5/2} - 2s^2 2p^3 \ ^2P_{1/2}$	4.6	1.56e+00
O II	7322.0190	$2s^2 2p^3 \ ^2D_{5/2} - 2s^2 2p^3 \ ^2P_{3/2}$	4.6	5.93e+00
O II	7331.6982	$2s^2 2p^3 \ ^2D_{3/2} - 2s^2 2p^3 \ ^2P_{1/2}$	4.6	2.60e+00
O II	7332.7671	$2s^2 2p^3 \ ^2D_{3/2} - 2s^2 2p^3 \ ^2P_{3/2}$	4.6	3.20e+00
N I	7425.6968	$2s^2 2p^2 3s \ ^4P_{1/2} - 2s^2 2p^2 3p \ ^4S_{3/2}$	4.5	1.60e+00
N I	7444.3579	$2s^2 2p^2 3s \ ^4P_{3/2} - 2s^2 2p^2 3p \ ^4S_{3/2}$	4.5	3.36e+00

Table 1: (continued)

Ion	$\lambda$ (Å)	Transition	$T_{\max}$	Int
N I	7470.3789	$2s^2 2p^2 3s \ ^4P_{5/2} - 2s^2 2p^2 3p \ ^4S_{3/2}$	4.5	3.64e+00
K XIV	7548.3232	$2s^2 2p^2 \ ^3P_0 - 2s^2 2p^2 \ ^3P_1$	6.6	3.01e+00
S XII	7612.6816	$2s^2 2p \ ^2P_{1/2} - 2s^2 2p \ ^2P_{3/2}$	6.4	1.48e+02
Fe XI	7893.9819	$3s^2 3p^4 \ ^3P_2 - 3s^2 3p^4 \ ^3P_1$	6.1	6.19e+01
S II	7969.5898	$3s^2 3p^2 \ (^3P) 4s \ ^2P_{1/2} - 3s^2 3p^2 \ (^3P) 4p \ ^2S_{1/2}$	4.5	2.96e+00
Ni XV	8026.3408	$3s^2 3p^2 \ ^3P_1 - 3s^2 3p^2 \ ^3P_2$	6.4	8.97e+00
N I	8212.9873	$2s^2 2p^2 3s \ ^4P_{3/2} - 2s^2 2p^2 3p \ ^4P_{3/2}$	4.5	1.38e+00
N I	8218.6094	$2s^2 2p^2 3s \ ^4P_{5/2} - 2s^2 2p^2 3p \ ^4P_{5/2}$	4.5	2.56e+00
S II	8316.8877	$3s^2 3p^2 \ (^3P) 4s \ ^2P_{3/2} - 3s^2 3p^2 \ (^3P) 4p \ ^2S_{1/2}$	4.5	4.81e+00
Ar XIII	8339.6035	$2s^2 2p^2 \ ^3P_1 - 2s^2 2p^2 \ ^3P_2$	6.5	7.04e+01
N I	8570.1035	$2s^2 2p^2 3s \ ^2P_{1/2} - 2s^2 2p^2 3p \ ^2P_{3/2}$	4.5	3.28e+00
N I	8596.3779	$2s^2 2p^2 3s \ ^2P_{1/2} - 2s^2 2p^2 3p \ ^2P_{1/2}$	4.5	4.55e+00
N I	8631.6172	$2s^2 2p^2 3s \ ^2P_{3/2} - 2s^2 2p^2 3p \ ^2P_{3/2}$	4.5	1.76e+01
Al II	8643.0723	$3s 4s \ ^1S_0 - 3s 4p \ ^1P_1$	4.5	1.24e+01
N I	8658.2715	$2s^2 2p^2 3s \ ^2P_{3/2} - 2s^2 2p^2 3p \ ^2P_{1/2}$	4.5	2.32e+00
N I	8682.6797	$2s^2 2p^2 3s \ ^4P_{5/2} - 2s^2 2p^2 3p \ ^4D_{7/2}$	4.5	3.46e+00
N I	8685.8018	$2s^2 2p^2 3s \ ^4P_{3/2} - 2s^2 2p^2 3p \ ^4D_{5/2}$	4.5	1.93e+00
N I	8714.1084	$2s^2 2p^2 3s \ ^4P_{3/2} - 2s^2 2p^2 3p \ ^4D_{3/2}$	4.5	1.54e+00
Si III	9326.4590	$3s 3d \ ^1D_2 - 3s 4p \ ^1P_1$	4.8	3.76e+00
N I	9389.3994	$2s^2 2p^2 3s \ ^2P_{1/2} - 2s^2 2p^2 3p \ ^2D_{3/2}$	4.5	9.73e+00
N I	9395.3887	$2s^2 2p^2 3s \ ^2P_{3/2} - 2s^2 2p^2 3p \ ^2D_{5/2}$	4.5	1.41e+01
N I	9463.2871	$2s^2 2p^2 3s \ ^2P_{3/2} - 2s^2 2p^2 3p \ ^2D_{3/2}$	4.5	1.72e+00
He I	9466.1484	$1s 3s \ ^3S_1 - 1s 5p \ ^3P_0$	4.5	5.45e+00
He I	9466.1982	$1s 3s \ ^3S_1 - 1s 5p \ ^3P_1$	4.5	1.63e+01
He I	9466.2012	$1s 3s \ ^3S_1 - 1s 5p \ ^3P_2$	4.5	2.73e+01
Fe IX	9788.3750	$3s^2 3p^5 3d \ ^3D_3 - 3s^2 3p^5 3d \ ^1F_3$	5.9	3.46e+00
S VIII	9915.7344	$2s^2 2p^5 \ ^2P_{3/2} - 2s^2 2p^5 \ ^2P_{1/2}$	5.9	1.04e+01