

Ion	Theor. Pos.	Transition	LogT	Ref.
O II	796.6610	2s2 2p3 2P3/2 - 2s 2p4 2D5/2	4.7	1
C II	799.6600	2s 2p2 2D5/2 2s 2p 3d 2F7/2	4.5	1
C II	799.9440	2s 2p2 2D3/2 - 2s 2p 3d 2F5/2	4.5	1
C II	806.384	2s 2p2 2P3/2 - 2s 2p 3s 4P5/2	4.5	1
C II (2)	806.86	2s 2p2 4P3/2 - 2s 2p 3s 4P3/2	4.5	1
S IV - C II	809.6680	3s2 3p 2P1/2 - 3s3 3p2 2S1/2	5.1	1
Fe III	813.3820	3d6 5D4 - 3d5 4p 5D4	4.4	1
Si IV	815.0490	2p6 3p 2P1/2 - 2p6 4s 2S1/2	4.9	1
S IV	815.9520	3s2 3p 2P3/2 - 3s 3p2 2S1/2	5.0	1
Si IV	818.1290	3p 2P3/2 - 4s 2S1/2	4.9	1
Ca IX	821.2690	3s 3p 1P1 - 3p2 1D2	5.8	1
O II	832.7620	2s2 2p3 4S3/2 - 2s 2p4 4P1/2	4.7	1
O III	832.9270	2s2 2p2 3P0 - 2s 2p3 3D1	4.9	1
O II	833.3320	2s2 2p3 4S3/2 - 2s 2p4 4P3/2	4.7	1
O III (*)	833.7100	2s2 2p2 3P1 - 2s 2p3 3D1	4.9	2
O III	833.7420	2s2 2p2 3P1 - 2s 2p3 3D2	4.9	1
O II	834.4620	2s2 2p3 4S3/2 - 2s 2p4 4P5/2	4.7	1
O III	835.0960	2s2 2p2 3P2 - 2s 2p3 3D2	4.9	1
O III	835.2920	2s2 2p2 3P2 - 2s 2p3 3D3	4.9	1
Fe III (*)	839.9810	3d6 5D1 - 3d5 4p 3P1	4.4	1
Fe III (*)	840.5180	3d6 3G3 - 3d5 4p 3G3	4.4	1
Fe III (*)	844.2840	3d6 5D4 - 3d5 4p 5P3	4.4	1
Fe III (*)	845.4080	3d6 5D3 - 3d5 4p 5P2	4.4	1
S V	849.2400	3s 3p 3P1 - 3p2 3P2	5.2	2
Ar IV	850.5980	3s2 3p3 4S3/2 - 3s 3p4 4P5/2	5.0	2
Fe III (*)	851.1500	3d6 3G5 - 3d5 4p 3F4	4.4	1
%Fe III (?) (*)	851.3320	3d6 3H5 - 3d5 4p 3H5	< 4.0	1
S V	852.1780	3s 3p 3P0 - 3p2 3P1	5.2	2
S IV (*)	852.711	3s 3p2 2D3/2 - 3p3 2P1/2	5.1	2
Mg VII	854.7240	2s2 2p2 3P1 - 2s 2p3 5S2	5.8	2
S V (2)	854.8700	3s 3p 3P2 - 3p2 3P2	5.2	2
Fe III (*)	855.4410	3d6 3D2 - 3d5 4p 3D2	4.4	1
Al III (?) (*)	856.7470	3p 2P3/2 - 5s 2S1/2	4.6	1
Fe III (*)	857.3920	3d6 5D3 - 3d5 4p 3D3	4.4	1
Fe III (*)	857.6900	3d6 3F4 - 3d5 4p 3G5	4.4	1
C II	858.0918	2s2 2p 2P1/2 - 2s2 3s 2S1/2	4.5	1

	C II	858.5590	$2s^2 2p 2P_{3/2} - 2s^2 3s 2S_{1/2}$	4.5	1
	Fe III (2)	859.7210	$3d^6 5D_4 - 3d^5 4p 5F_5$	4.4	1
	Fe III (2)	861.8320	$3d^6 5D_3 - 3d^5 4p 5F_4$	4.4	1
	Fe III	864.0340	$3d^6 5D_2 - 3d^5 4p 5F_3$	4.4	1
	Mg VII	868.1930	$2s^2 2p^2 3P_2 - 2s 2p^3 5S_2$	5.8	2
	Na VII	869.537	$2s^2 2p 2P_{1/2} - 2s 2p^2 4P_{1/2}$	5.7	3
	S IX	871.7270	$2s^2 2p^4 3P_1 - 2s^2 2p^4 1S_0$	6.0	2
	Ar VII	877.9200	$3s^2 1S_0 - 3s 3p 3P_1$	5.6	4
	C III - Fe III	884.5260	$2p^2 1D_2 - 2s 3p 1P_1$	4.9	2
	Ne VII	895.1800	$2s^2 1S_0 - 2s 2p 3P_1$	5.7	1
	C II	903.6235	$2s^2 2p 2P_{1/2} - 2s 2p^2 2P_{3/2}$	4.5	1
	C II	903.9616	$2s^2 2p 2P_{1/2} - 2s 2p^2 2P_{1/2}$	4.5	1
	C II	904.1416	$2s^2 2p 2P_{3/2} - 2s 2p^2 2P_{3/2}$	4.5	1
	C II	904.4801	$2s^2 2p 2P_{3/2} - 2s 2p^2 2P_{1/2}$	4.5	1
	H I Ly 21	913.4802	$1s 2S_{1/2} - 22p 2P_{3/2}$	4.2	
	H I Ly 20	913.826	$1s 2S_{1/2} - 21p 2P_{3/2}$	4.2	
	H I Ly 19	914.0390	$1s 2S_{1/2} - 20p 2P_{3/2}$	4.2	
	H I Ly 18	914.2860	$1s 2S_{1/2} - 19p 2P_{3/2}$	4.2	
	H I Ly 17	914.5760	$1s 2S_{1/2} - 18p 2P_{3/2}$	4.2	1
	H I Ly 16	914.9190	$1s 2S_{1/2} - 17p 2P_{3/2}$	4.2	1
	H I Ly 15	915.3290	$1s 2S_{1/2} - 16p 2P_{3/2}$	4.2	1
	N II	915.6120	$2s^2 2p^2 3P_0 - 2s 2p^3 3P_1$	4.7	1
	H I Ly 14	915.8240	$1s 2S_{1/2} - 15p 2P_{3/2}$	4.2	1
	N II (2)	916.0130	$2s^2 2p^2 3P_1 - 2s 2p^3 3P_2$	4.7	2
	H I Ly 13	916.4290	$1s 2S_{1/2} - 14p 2P_{3/2}$	4.2	1
	N II (2)	916.7010	$2s^2 2p^2 3P_2 - 2s 2p^3 3P_2$	4.7	1
	H I Ly 12	917.1810	$1s 2S_{1/2} - 13p 2P_{3/2}$	4.2	1
	H I Ly 11	918.1290	$1s 2S_{1/2} - 12p 2P_{3/2}$	4.2	1
	O I	918.7260	$2s^2 2p^4 3P_0 - 2s^2 2p^3 12d 3D_1$	< 4.0	1
	Si VII	918.850	$2p^3 3p 3F_4 - 2p^3 3d 3G_5$	5.7	3
	H I Ly 10	919.3500	$1s 2S_{1/2} - 11p 2P_{3/2}$	4.2	1
	O I	919.6580	$2s^2 2p^4 3P_2 - 2s^2 2p^3 10d 3D_3$	< 4.0	1
	O I (2)	919.9080	$2s^2 2p^4 3P_2 - 2s^2 2p^3 11s 3S_1$	< 4.0	1
	H I Ly 9	920.9630	$1s 2S_{1/2} - 10p 2P_{3/2}$	4.2	1
	O I (*)	921.2470	$2s^2 2p^4 3P_1 - 2s^2 2p^3 11s 3S_1$	< 4.0	1
	O I	921.5750	$2s^2 2p^4 3P_0 - 2s^2 2p^3 10d 3D_1$	< 4.0	1
	O I	921.8600	$2s^2 2p^4 3P_2 - 2s^2 2p^3 9d 3D_3$	< 4.0	1
	O I	922.0727	$2s^2 2p^4 1D_2 - 2s^2 2p^3 3d 1D_2$	< 4.0	1
	O I - N IV	922.4600	$2s^2 2p^4 1D_2 - 2s^2 2p^3 3d 1P_2$	< 4.0	1
	H I Ly 8	923.150	$1s 2S_{1/2} - 9p 2P_{3/2}$	4.2	1

O I - N IV	923.7900	2s2 2p4 3P0 - 2s2 2p3 9d 3D1	< 4.0	1
S VII - S V	924.06	2s2 2p5 3s 3P1 - 2s2 2p5 3p 3D2	5.77	4
N IV	924.2830	2s 2p 3P2 - 2p2 3P1	5.1	1
O I	924.9520	2s2 2p4 3P2 - 2s2 2p3 8d 3D3	< 4.0	1
O I	925.4420	2s2 2p4 3P2 - 2s2 2p3 9s 3S1	< 4.0	1
He II	925.8000	2p 2P3/2 - 16d 2D5/2	4.9	1
H I Ly 7	926.2260	1s 2S1/2 - 8p 2P3/2	4.2	1
O I (2)	926.8090	2s2 2p4 3P1 - 2s2 2p3 9s 3S1	< 4.0	1
O I	927.3940	2s2 2p4 3P0 - 2s2 2p3 9s 3S1	< 4.0	1
He II	927.8600	2s2 2S - 15p 2P	4.9	4
O I	929.5168	2s2 2p4 3P2 - 2s2 2p3 7d 3D3	< 4.0	1
Fe III	930.0860	3d6 3G3 - 3d5 4p 3H4	4.4	1
O I - He II	930.2566	2s2 2p4 3P2 - 2s2 2p3 8s 3S1	< 4.0	1
H I Ly 6	930.7480	1s 2S1/2 - 7p 2P3/2	4.2	1
O I	931.4820	2s2 2p4 3P0 - 2s2 2p3 7d 3D1	< 4.0	1
O I	931.6282	2s2 2p4 3P1 - 2s2 2p3 8s 3S1	< 4.0	1
O I	932.2249	2s2 2p4 3P0 - 2s2 2p3 8s 3S1	< 4.0	1
S VI	933.3800	3s 2S1/2 - 3p 2P3/2	5.3	1
Fe III	934.7030	3d6 3P2 - 3d5 4p 3S1	4.4	1
O I	935.1930	2s2 2p4 1D2 - 2s2 2p3 4s 1D2	< 4.0	1
Mg IV (*)	936.2880	2s2 2p4 3p 2P3/2 - 2s2 2p4 4s 2D5/2	5.3	1
O I	936.6295	2s2 2p4 3P2 - 2s2 2p3 6d 3D2	< 4.0	1
He II		2s2 2P3/2 - 12d 2D5/2	4.9	5
S II (2)	937.6900	3s2 3p3 2D5/2 - 3s2 3p2 4s 2D5/2	4.4	2
H I Ly 5	937.8030	1s 2S1/2 - 6p 2P3/2	4.2	1
O I	938.6249	2s2 2p4 3P0 - 2s2 2p3 6d 3D1	< 4.0	1
O I	939.2346	2s2 2p4 3P1 - 2s2 2p3 7s 3S1	< 4.0	1
O I	939.8412	2s2 2p4 3P0 - 2s2 2p3 7s 3S1	< 4.0	1
He II	942.5380	2p 2P3/2 - 11d 2D/2	4.9	1
Si VIII	944.4670	2s2 2p3 4S3/2 - 2s2 2p3 2P3/2	5.9	1
S VI	944.5240	3s 2S1/2 - 3p 2P1/2	5.3	2
C I	945.1910	2s2 2p2 3P0 - 3s 2p3 3P1	< 4.0	1
C I	945.3380	2s2 2p2 3P0 - 3s 2p3 3S1	< 4.0	1
C I	945.5790	2s2 2p2 3P2 - 2s 2p3 3S1	< 4.0	1
C II	945.9770	2s 2p2 2S1/2 - 2s 2p 3d 2P1/2	4.5	1
Fe III (*)	946.056	3d6 3P1 - 3d5 4p 1S3	4.4	1
C II	946.1980	2s 2p2 2S1/2 - 2s 2p 3d 2P3/2	4.5	1
S X	946.28	3s 4P5/2 - 3p 4D7/2	6.13	3
Fe III	948.3220	3d6 3P2 - 3d5 4p 3D3	4.4	1
O I	948.6855	2s2 2p4 3P2 - 2s2 2p3 5d 3D3	< 4.0	1

He II - Si VIII	949.3540	2p 2P3/2 - 10d 2D5/2	4.9	1
H I Ly 4	949.7430	1s 2S1/2 - 5p 2P3/2	4.2	2
O I - Si IX	950.1121	2s2 2p4 3P1 - 2s2 2p3 5d 3D2	< 4.0	1
Fe III	950.3340	3d6 1I6 - 3d54p 5G6	4.4	1
O I - Fe III	950.77327	2s2 2p4 3P0 - 2s2 2p3 5d 3D1	< 4.0	1
O I	952.3178	2s2 2p4 3P1 - 2s2 2p3 6s 3S1	< 4.0	1
O I	952.9413	2s2 2p4 3P0 - 2s2 2p3 6s 3S1	< 4.0	1
N I	953.4150	2s2 2p3 4S3/2 - 2s2 2p2 3d 4P1/2	< 4.0	1
N I	953.6548	2s2 2p3 4S3/2 - 2s2 2p2 3d 4P3/2	< 4.0	1
N I	953.9698	2s2 2p3 4S3/2 - 2s2 2p2 3d 4P5/2	< 4.0	1
N IV	955.3350	2s 2p 1P1 - 2p2 1S0	5.1	1
N I (*)	955.4376	2s2 2p3 4S3/2 - 2s2 2p2 3d 4F3/2	< 4.0	1
He II	958.7240	2p 2P3/2 - d 2D5/2	4.9	1
Fe III	959.5520	3d6 3P1 - 3d5 4p 3D2	4.4	1
Fe III	961.9010	3d6 1D2 - 3d5 4p 1D2	4.4	1
O III (*)	962.4230	2s 2p3 1D2 - 2s2 2p 3p 1P1	4.9	2
Fe III - N I	963.8800	3d6 3P0 - 3d5 4p 3D1	4.4	1
N I	964.6258	2s2 2p3 4S3/2 - 2s2 2p2 4s 4P3/2	< 4.0	1
N I	965.0415	2s2 2p3 4S3/2 - 2s2 2p2 4s 4P1/2	< 4.0	1
Fe III - Si V	967.1970	3d6 3F4 - 3d5 4p 3D3	4.4	1
Fe III	968.9550	3d6 3F3 - 3d5 4p 3D2	4.4	1
Fe III	969.9540	3d6 3F2 - 3d5 4p 3D1	4.4	1
O I	971.7390	2s2 2p4 3P2 - 2s2 2p3 4d 3D3	< 4.0	1
He II (2)	972.1380	2p 2P3/2 - 8d 2D5/2	4.9	1
H I	972.5380	1s 2S1/2 - 4p 2P3/2	4.2	2
O I	973.2342	2s2 2p4 3P1 - 2s2 2p3 4d 3D2	< 4.0	1
Ne VII	973.3300	2s 2p 1P1 - 2p2 1D2	5.7	2
O I	973.8852	2s2 2p4 3P0 - 2s2 2p3 4d 3D1	< 4.0	1
O I	976.4480	2s2 2p4 3P2 - 2s2 2p3 5s 3S1	< 4.0	1
C III	977.020	2s2 1S0 - 2s 2p 1P1	4.9	1
O I	977.9594	2s2 2p4 3P2 - 2s2 2p3 5s 3S1	< 4.0	1
O I	978.6170	2s2 2p4 3P0 - 2s2 2p3 5s 3S1	< 4.0	1
Fe III	979.0320	3d6 1F3 - 3d54p 1F3	4.4	1
O I (*)	979.2720	2s2 2p4 3P2 - 2s2 2p3 5s 5S2	< 4.0	1
N III (2)	979.8420	2s 2p2 2D3/2 - 2p3 2D3/2	5.0	1
Fe III	981.3730	3d5 4s 5P2 - 3d55p 5P2	4.4	1
Si VIII	982.1750	2s2 2p2 3p 4D1/2 - 2s2 2p2 3d 4F3/2	5.9	2
Si VIII	983.5760	2s2 2p2 3p 4D3/2 - 2s2 2p2 3d 4F5/2	5.9	2
Fe III	983.9090	3d6 1I6 - 3d54p 2K7	4.4	1
Fe III	985.8240	3d6 3H4 - 3d5 4p 3G3	4.4	1

O VI (*)	986.3508	1s2 4s 2S1/2 - 1s2 5p 2P3/2	5.6	2
Fe III	986.6370	3d6 1I6 - 3d5 4p 1H5	4.4	1
Na VI	988.6130	2s2 2p2 3P2 - 2s 2p3 5S2	5.6	2
O I	988.7734	2s2 2p4 3P2 - 2s2 2p3 3s 3D3	< 4.0	1
N III	989.7900	2s2 2p 2P1/2 - 2s 2p2 2D3/2	5.0	1
O I	990.2043	2s2 2p4 3P1 - 2s2 2p3 3s 3D2	< 4.0	1
O I	990.8010	2s2 2p4 3P0 - 2s2 2p3 3s 3D1	< 4.0	1
Fe III	991.2320	3d6 3F4 - 3d5 4p 3D3	4.4	1
N III	991.5790	2s2 2p 2P3/2 - 2s 2p2 2D5/2	5.0	1
He II (2)	992.3380	2p 2P3/2 - 7d 2D5/2	4.9	1
Si II	992.6829	3s2 3p 2P3/2 - 3s2 4d 2D5/2	4.3	1
Fe III - Ne VI	993.0800	3d6 3G4 - 3d5 4p 3F3	4.4	1
Si III	993.5100	3s 3p 3P0 - 3s 4s 3S1	4.7	1
Fe III	994.2570	3d6 3P2 - 3d5 4p 3P1	4.4	1
Si VIII	994.5810	2s2 2p2 3p 4D7/2 - 2s2 2p2 3d 4F9/2	5.9	2
Fe III	994.7240	3d6 3G3 - 3d5 4p 3F2	4.4	1
Fe III	995.1500	3d6 3F4 - 3d5 4p 3G5	4.4	1
S II	996.0000	3s2 3p3 2D5/2 - 3s2 3p2 3d 2F7/2	4.5	1
Fe III	997.0810	3d6 3P2 - 3d5 4p 3P2	4.4	1
Si III	997.3890	3s 3p 3P2 - 3s 4s 3S1	4.7	1
Fe III	997.5990	3d6 3F3 - 3d5 4p 3G4	4.4	1
Fe III (*)	997.794	3d6 3F3 - 3d5 4p 3G3	4.4	1
Si XII/2	499.4066	1s2 2s 2S1/2 - 1s2 2p 2P3/2	6.2	2
Ne VI	999.1820	2s2 2p 2P3/2 - 2s 2p2 4P5/2	5.6	2
O I - Fe III	999.4974	2s2 2p4 1D2 - 2s2 2p3 3s 1P1	< 4.0	1
Ar VI	1000.1600	3s2 3p 2P3/2 - 3s 3p 4P5/2	5.5	1
S II	1000.4860	3s2 3p3 2D3/2 - 3s2 3p2 3d 2F5/2	4.5	2
S II	1000.7500	3s2 3p3 2D5/2 - 3s2 3p2 3d 2F5/2	4.4	1
Fe III	1005.106	3d5 4p 7P3 - 3d5 5s 5G4	4.4	1
Si III	1005.349	3s 3d 3D2 3s 6f 3F2	4.8	1
Ne VI	1005.69	2s2 2p 2P3/2 - 2s 2p2 4P3/2	5.6	2
N III (2)	1005.977	2s 2p2 2S1/2 - 2p3 2P3/2	4.9	2
S II (2)	1006.093	3s2 3p3 2D5/2 - 3s2 3p2 3d 4D7/2	4.5	1
C II	1009.858	2s9 2p2 4P1/2 - 2p3 4S3/2	4.5	1
C II - Fe III	1010.005	3d6 3P1 - 3d5 4p 3P2	4.5	1
C II - Ne VI	1010.371	2s 2p2 4P5/2 - 2p3 4S3/2	4.5	1
Fe III	1012.411	3d6 3P0 - 3d5 4p 3P1	4.4	1
S III	1012.494	3s2 3p2 3P0 - 3s 3p3 3P1	4.8	2
S II	1014.42	3s2 3p3 2D5/2 - 3s2 3p2 4s 2P3/2	4.5	1
S III (2)	1015.51	3s2 3p2 3P1 - 3s 3p3 3P0	4.8	1

S III	1015.76	3s2 3p2 3P1 - 3s 3p3 3P2	4.8	1
Fe III	1017.254	3d6 3H6 - 3d5 4p 3H6	4.4	1
Fe III	1017.745	3d6 3H5 - 3d5 4p 3H5	4.4	1
Fe III	1018.286	3d6 3H4 - 3d5 4p 3H4	4.4	1
Ar XII	1018.726	2s2 2p3 4S3/2 - 2s2 2p3 2D5/2	6.4	2
Fe III	1019.789	3d6 3D3 - 3d5 4p 3P2	4.4	1
S III	1021.10	3s2 3p2 3P2 - 3s 3p3 3P1	4.8	1
S III	1021.32	3s2 3p2 3P2 - 3s 3p3 3P2	4.8	1
Fe III	1021.561	3d6 3D2 - 3d5 4p 3P1	4.4	1
He II	1025.302	2p 2P3/2 - 6d 2D5/2	4.9	1
H I Ly-b	1025.722	1s 2S1/2 - 3p 2P 3/2	4.2	1
Fe III	1026.790	3d6 3G5 - 3d5 4p 3G5	4.4	1
O I	1027.4307	2s2 2p4 3P1 - 2s2 2p3 3d 3D2	< 4.0	1
O I - Fe X	1028.145	2s2 2p4 3P1 - 2s2 2p3 3d 5D2	< 4.0	1
Fe III - S II	1030.924	3d6 3G4 - 3d5 4p 3G4	4.4	1
S II	1031.34	3s2 3p3 2P3/2 - 3s2 3p2 4s 2D5/2	4.5	1
O VI	1031.924	1s2 2s 2S1/2 - 1s2 2p 2P3/2	5.6	1
Fe III	1035.7679	3d6 3F3 - 3d5 4p 3F3	4.4	1
C II	1036.3367	2s2 2p 2P1/2 - 2s 2p2 2S1/2	4.5	1
C II	1037.0182	2s2 2p 2P3/2 - 2s 2p2 2S1/2	4.5	1
O VI	1037.614	1s2 2s 2S1/2 - 1s2 2p 2P1/2	5.6	1
Fe III	1038.355	3d6 3F2 - 3d5 4p 3F2	4.4	1
O I	1039.2303	2s2 2p4 3P2 - 2s2 2p3 4s 3S1	< 4.0	1
O I	1040.9425	2s2 2p4 3P1 - 2s2 2p3 4s 3S1	< 4.0	1
Si XII/2	520.665	1s2 2s 2S1/2 - 1s2 2p 2P1/2	6.3	2
O I	1041.6876	2s2 2p4 3P0 - 2s2 2p3 4s 3S1	< 4.0	1
N I	1043.08	2s2 2p3 2D5/2 - 2s2 2p2 7d 4D7/2	< 4.0	1
N I	1043.166	2s2 2p3 2D5/2 - 2s2 2p2 7d 2F7/2	< 4.0	1
N I	1044.069	2s2 2p3 2D3/2 - 2s2 2p2 7d 2P1/2	< 4.0	1
He I/2	522.2128	1s2 1S0 - 1s 4p 1P1	4.5	3
S II - Al IV	1045.765	3s2 3p3 2D5/2 - 3s2 3p2 3d 4F7/2	4.5	2
S II	1049.0551	s2 3p3 2D3/2 - 3s2 3p2 3d 4F3/2	4.4	2
Si VII	1049.199	2s2 2p4 3P1 - 2s2 2p4 1S0	5.7	2
S I	1049.82	3s2 3p4 3P2 - 3s2 3p3 5s 3P2	< 4.0	1
S I	1050.3	3s2 3p4 3P2 - 3s2 3p3 5s 3P1	< 4.0	1
O III/2	525.808	2s2 2p2 1D2 - 2s 2p3 1P1	4.9	2
N I	1052.0820	2s2 2p3 2D5/2 - 2s2 2p2 6d 4D7/2	< 4.0	1
N I	1053.0880	2s2 2p3 2D3/2 - 2s2 2p2 6d 4D7/2	< 4.0	1
N I	1053.1840	2s2 2p3 2D3/2 - 2s2 2p2 6d 2P1/2	< 4.0	1
Al VII	1053.9980	2s2 2p3 4S3/2 - 2s2 2p3 2P3/2	5.7	2

Ar XII	1054.687	2s2 2p3 4S3/2 - 2s2 2p3 2D3/2	6.2	2
Al VII	1056.917	2s2 2p3 4S3/2 - 2s2 2p3 2P1/2	5.7	2
Al VIII	1057.8900	2p2 3P1 - 2p2 1S0	5.9	1
Fe II	1059.5640	3d6 4s 6D7/2 - 3d5 4s 4p 6P7/2	4.2	1
Fe III	1061.1270	3d6 3D2 - 3d5 4p 3D1	4.4	1
Fe III	1061.7080	3d6 3D2 - 3d5 4p 3D2	4.4	1
Fe III	1062.2720	3d6 3D2 - 3d5 4p 3D3	4.4	1
S IV	1062.6710	3s2 3p 2P1/2 - 3s 3p2 2D3/2	5.0	1
Fe III	1063.3090	3d6 3D3 - 3d5 4p 3D2	4.4	1
Ar VII - Fe II	1063.55	3s 3p 1P1 - 3p2 1D2	5.6	1
Fe III	1063.8719	3d6 3D3 - 3d5 4p 3D3	4.4	1
Fe III	1064.6610	3d6 3F2 - 3d5 4p 3G3	4.4	1
Al IV (*)	1064.8910	2s2 2p5 3d 3D3 - 2s2 2p5 4f...	5.0	1
C II	1065.8914	2s 2p2 2D5/2 - 2p3 2P3/2	4.5	1
Fe III (2)	1066.143	3d6 3G5 - 3d5 4p 3H6	4.4	1
Si IV	1066.6290	3d 2D5/2 - 4f 2F7/2	4.9	1
N I	1067.3860	2s2 2p3 2D5/2 - 2s2 2p2 5d 4D7/2	< 4.0	1
N I	1067.6160	2s2 2p3 2D5/2 - 2s2 2p2 5d 2F7/2	< 4.0	1
Fe III	1068.1899	3d6 3G4 - 3d5 4p 3H5	4.4	1
Fe III-Al V (*)	1068.2990	3d6 3F4 - 3d5 4p 3G5	4.4	1
N I	1068.477	2s2 2p3 2D3/2 - 2s2 2p2 5d 4P5/2	< 4.0	1
N I	1068.6810	2s2 2p3 2D5/2 - 2s2 2p2 5d 4F7/2	< 4.0	1
N I	1069.1100	2s2 2p3 2D5/2 - 2s2 2p2 5d 4F5/2	< 4.0	1
N I (*)	1071.4410	2s2 2p3 2D3/2 - 2s2 2p2 6s 4P1/2	< 4.0	1
Fe III	1071.7460	3d6 3G4 - 3d5 4p 3F3	4.4	1
S IV	1072.9900	3s2 3p 2P3/2 - 3s 3p2 2D5/2	5.0	1
S IV	1073.5200	3s2 3p 2P3/2 - 3s 3p2 2D3/2	5.0	1
He I/2	537.0296	1s2 1S0 - 1s 3p 1P1	4.5	1
Fe III	1075.0240	3d6 3G3 - 3d5 4p 3F2	4.4	1
S III	1077.1300	3s2 3p2 1D2 - 3s2 3p 3d 1D2	4.7	1
Fe III (*)	1083.1760	3d6 3P0 - 3d5 4p 3D1	4.4	1
N II	1083.9900	2s2 2p2 3P0 - 2s 2p3 3D1	4.7	1
N II (2)	1084.5800	2s2 2p2 3P1 - 2s 2p3 3D2	4.7	1
He II	1084.9750	2p 2P3/2 - 5d 2D5/2	4.9	1
N II	1085.5460	2s2 2p2 3P2 - 2s 2p3 3D2	4.7	1
N II	1085.7010	2s2 2p2 3P2 - 2s 2p3 3D3	4.7	1
C II	1092.7260	2s 2p2 2P3/2 - 2s 2p 3d 2P3/2	4.5	1
Si III	1093.1050	3s 3d 3D2 - 3s 6p 3P1	4.8	1
Al V	1093.2200	2s2 2p4 3p 2P3/2 - 2s2 2p4 3d 2P3/2	5.4	1
S II	1096.5699	3s2 3p3 2D3/2 - 3s2 3p2 3d 2P1/2	4.4	1

	Fe III	1096.6060	3d6 3F4 - 3d5 4p 3D3	4.4	1
	N I	1097.2371	2s2 2p3 2D5/2 - 2s2 2p2 4d 2F7/2	< 4.0	1
N I (*)	- S I	1097.4919	2s2 2p3 2D3/2 - 2s2 2p2 4d 4P5/2	< 4.0	1
	N I	1098.0970	2s2 2p3 2D3/2 - 2s2 2p2 4d 4F5/2	< 4.0	1
	Fe III	1098.2469	3d6 3P2 - 3d5 4p 3D3	4.4	1
	N I	1099.0420	2s2 2p3 2D5/2 - 2s2 2p2 4d 4F5/2	< 4.0	1
S IV (*)		1099.53	3s 3p2 2D3/2 - 3p3 2D3/2	5.2	1
Al XI/2		550.0300	1s2 2s 2S1/2 - 1s2 2p 2P3/2	6.1	1
	S II	1102.3199	3s2 3p3 2D5/2 - 3s 3p4 2P3/2	4.4	1
	C I	1103.3000	2s2 2p2 3P2 - 2s2 2p 23d 1F3	< 4.0	1
	C I	1103.6000	2s2 2p2 3P2 - 2s2 2p 22d 1F3	< 4.0	1
	C I	1103.8650	2s2 2p2 3P1 - 2s2 2p 20d 1P1	< 4.0	1
	C I	1104.1650	2s2 2p2 3P2 - 2s2 2p 20d 1F3	< 4.0	1
	C I	1104.6270	2s2 2p2 3P1 - 2s2 2p 18d 1P1	< 4.0	1
	C I	1104.9420	2s2 2p2 3P0 - 2s2 2p 17d 1P1	< 4.0	1
	C I	1105.142	2s2 2p2 3P1 - 2s2 2p 17d 1P1	< 4.0	1
	C I	1105.4720	2s2 2p2 3P2 - 2s2 2p 17d 1F3	< 4.0	1
	C I	1105.7321	2s2 2p2 3P1 - 2s2 2p 16d 1P1	< 4.0	1
	C I	1106.0630	2s2 2p2 3P2 - 2s2 2p 16d 1P1	< 4.0	1
	C I	1106.2629	2s2 2p2 3P0 - 2s2 2p 15d 1P1	< 4.0	1
	C I	1106.45	2s2 2p2 3P1 - 2s2 2p 15d 1P1	< 4.0	1
	C I	1106.7810	2s2 2p2 3P2 - 2s2 2p 15d 1P1	< 4.0	1
	C I	1107.3470	2s2 2p2 3P1 - 2s2 2p 14d 1P1	< 4.0	1
	C I	1107.6700	2s2 2p2 3P2 - 2s2 2p 14d 1P1	< 4.0	1
	C I	1107.9080	2s2 2p2 3P0 - 2s2 2p 14d 3D1	< 4.0	1
C I - O IV		1108.1090	2s2 2p2 3P1 - 2s2 2p 14d 3D1	< 4.0	1
	C I	1108.4410	2s2 2p2 3P2 - 2s2 2p 14d 3D1	< 4.0	1
	C I	1108.8040	2s2 2p2 3P2 - 2s2 2p 13d 1F3	< 4.0	1
C I - O IV/2		1109.0310	2s2 2p2 3P0 - 2s2 2p 13d 3D1	< 4.0	1
	C I	1109.2330	2s2 2p2 3P1 - 2s2 2p 13d 3D1	< 4.0	1
	C I	1109.6050	2s2 2p2 3P0 - 2s2 2p 13s 1P1	< 4.0	1
	Si III	1109.9650	3s 3p 3P1 - 3s 3d 3D2	4.8	1
	C I	1110.2111	2s2 2p2 3P2 - 2s2 2p 13s 1P1	< 4.0	1
O IV/2		555.2610	2s2 2p 2P3/2 - 2s 2p2 2P1/2	5.4	1
	C I	1111.0100	2s2 2p2 3P2 - 2s2 2p 12d 3F3	< 4.0	1
	C I	1111.4210	2s2 2p2 3P0 - 2s2 2p 11d 1P1	< 4.0	1
	C I	1111.6240	2s2 2p2 3P1 - 2s2 2p 11d 1P1	< 4.0	1
	C I	1112.0031	2s2 2p2 3P2 - 2s2 2p 11d 1F3	< 4.0	1
	C I	1112.2690	2s2 2p2 3P0 - 2s2 2p 11d 3D1	< 4.0	1
	C I	1112.4720	2s2 2p2 3P1 - 2s2 2p 11d 3D1	< 4.0	1

C I	1112.8060	2s2 2p2 3P2 - 2s2 2p 11d 3D1	< 4.0	1
Si III	1113.2280	3s 3p 3P2 - 3s 3d 3D3	4.8	1
C I (*)	1113.7930	2s2 2p2 3P0 - 2s2 2p 10d 1P1	< 4.0	1
C I	1113.9960	2s2 2p2 3P1 - 2s2 2p 10d 1P1	< 4.0	1
C I	1114.3800	2s2 2p2 3P2 - 2s2 2p 10d 1P1	< 4.0	1
C I	1114.6281	2s2 2p2 3P0 - 2s2 2p 10d 3D1	< 4.0	1
C I	1114.8300	2s2 2p2 3P1 - 2s2 2p 10d 3D1	< 4.0	1
C I	1115.2250	2s2 2p2 3P2 - 2s2 2p 10d 3F3	< 4.0	1
Ca X/2	557.765	3s 2S1/2 - 3p 2P3/2	5.8	2
C I	1117.000	2s2 2p2 3P0 - 2s2 2p 9d 1P1	< 4.0	1
C I	1117.2050	2s2 2p2 3P1 - 2s2 2p 9d 1P1	< 4.0	1
C I	1117.5811	2s2 2p2 3P2 - 2s2 2p 9d 3P2	< 4.0	1
C I	1117.8660	2s2 2p2 3P0 - 2s2 2p 9d 3D1	< 4.0	1
C I	1118.1801	2s2 2p2 3P1 - 2s2 2p 9d 3F2	< 4.0	1
C I	1118.4910	2s2 2p2 3P2 - 2s2 2p 9d 3F3	< 4.0	1
Al IV	1118.8240	2s2 2p5 3s 1P1 - 2s2 2p5 3p 1S0	5.0	1
C I	1121.4520	2s2 2p2 3P0 - 2s2 2p 8d 3P1	< 4.0	1
C I	1121.6580	2s2 2p2 3P1 - 2s2 2p 8d 3P1	< 4.0	1
C I	1122.098	2s2 2p2 3P2 - 2s2 2p 8d 3P2	< 4.0	1
C I	1122.3340	2s2 2p2 3P2 - 2s2 2p 8d 3D3	< 4.0	1
Fe III	1122.526	3d6 5D4 - 3d5 4p 5P3	4.4	1
C I	1122.7250	2s2 2p2 3P1 - 2s2 2p 8d 3F2	< 4.0	1
C I	1122.9850	2s2 2p2 3P2 - 2s2 2p 8d 3D1	< 4.0	1
Ne VII/2	561.7280	2s 2p 3P2 - 2s 2p 3P2	5.7	1
Fe III	1124.8831	3d6 5D3 - 3d5 4p 5P2	4.4	1
Ne VI/2	562.798	2s2 2p 2P3/2 - 2s 2p2 2D5/2	5.6	2
Ne VII/2	562.9920	2s 2p 3P1 - 2p2 3P0	5.7	1
S III	1126.53800	3s 3p3 3D1 - 3s2 3p 4p 3P1	4.7	2
Fe III	1126.7280	3d6 5D2 - 3d5 4p 5P1	4.4	1
S III	1126.8500	3s 3p3 3D2 - 3s2 3p 4p 3P1	4.7	1
Fe III	1128.0500	3d6 5D3 - 3d5 4p 5P3	4.4	1
Si IV	1128.3400	3p 2P3/2 - 3d 2D5/2	4.9	1
Fe III	1128.7230	3d6 5D2 - 3d5 4p 5P2	4.4	1
Ne VII/2 - Fe I	564.5290	2s 2p 3P2 - 2p2 3P1	5.7	1
C I	1129.4050	2s2 2p2 3P1 - 2s2 2p 7d 3D1	< 4.0	1
Al V	1129.6200	2s2 2p4 3p 2D3/2 - 2s2 2p4 3d 2F5/2	5.4	1
C I	1129.9240	2s2 2p2 3P2 - 2s2 2p 7d 3F3	< 4.0	1
C I	1130.1710	2s2 2p2 3P2 - 2s2 2p 7d 1D2	< 4.0	1
Fe III	1130.4041	3d6 5D0 - 3d5 4p 5P1	4.4	1
Fe III - Si IV	1131.1940	3d6 5D1 - 3d5 4p 5P2	4.4	1

S II	1131.6500	3s2 3p3 2P3/2 - 3s2 3p2 4s 2P1/2	4.4	1
Fe III	1131.9139	3d6 5D2 - 3d5 4p 5P3	4.4	1
Ca XIII	1133.68	2s2 2p4 3P2 - 2s2 2p4 1D2	6.4	3
N I	1134.1650	2s2 2p3 4S3/2 - 2s 2p4 4P1/2	< 4.0	1
N I	1134.4147	2s2 2p3 4S3/2 - 2s 2p4 4P3/2	< 4.0	1
N I	1134.9801	2s2 2p3 4S3/2 - 2s 2p4 4P5/2	< 4.0	1
Si VII	1135.3530	2s2 2p2 3d 4F3/2 - 2s2 2p2 3d 2S1/2	5.7	1
Al XI/2	568.1500	1s2 2s 2S1/2 - 1s2 2p 2P1/2	6.1	1
Ne V	1136.5100	2s2 2p2 3P1 - 2s 2p3 5S2	5.6	2
Ne V/2	568.42	2s2 2p2 3P0 - 2s 2p3 3D1	5.6	1
Si V - Si VII	1137.2670	2p5 3s 3P2 - 2p5 3p 1P1	5.5	1
S IV (*)	1138.1400	3s 3p2 2S1/2 - 3p3 2P1/2	5.0	1
C I	1138.3831	2s2 2p2 3P0 - 2s2 2p 6d 3P1	< 4.0	1
C I	1138.5570	2s2 2p2 3P1 - 2s2 2p 6d 3P0	< 4.0	1
Fe II (?)	1138.64	3d6 4s 6D7/2 - 3d5 4s 4p 6D7/2	4.2	1
C I - C II	1138.9460	2s2 2p2 3P2 - 2s2 2p 6d 3P1	< 4.0	1
C II	1139.3320	2s 2p2 2P3/2 - 2s 2p 3d 2D5/2	4.5	1
C II	1139.4730	2s 2p2 2P3/2 - 2s 2p 3d 2D3/2	4.5	1
C I	1139.8120	2s2 2p2 3P2 - 2s2 2p 6d 3D3	< 4.0	1
C I (3) (*)	1140.005	2s2 2p2 3P1 - 2s2 2p 6d 3D1	< 4.0	1
C I	1140.3571	2s2 2p2 3P1 - 2s2 2p 6d 3F2	< 4.0	1
C I	1140.6400	2s2 2p2 3P2 - 2s2 2p 6d 3F3	< 4.0	1
Fe III	1141.2720	3d6 1G4 - 3d5 4p 1H5	4.4	1
C II	1141.6250	2s 2p2 2D5/2 - 2s 4p 2P3/2	4.5	1
Si III - Si VII	1142.2281	3p2 3P1 - 3p 3d 3D1	4.7	1
Si VII	1142.441	2p3 3s 5S2 - 2p3 3p 5P2	5.7	3
Fe III	1142.9550	3d6 3D3 - 3d5 4p 3F4	4.4	1
Fe II (*)	1143.2260	3d6 4s 6D9/2 - 3d5 4s 4p 6F9/2	4.2	1
Fe III-Si VII	1143.5450	3d6 3D1 - 3d5 4p 3F2	4.4	1
Ne V/2	572.1060	2s2 2p2 3P2 - 2s 2p3 3D2	5.6	1
Ne V/2	572.3360	2s2 2p2 3P2 - 2s 2p3 3D3	5.6	1
Fe II	1144.9390	3d6 4s 6D9/2 - 3d5 4s 4p 6F11/2	4.2	1
Ne V	1145.6000	2s2 2p2 3P2 - 2s 2p3 5S2	5.6	1
Fe II	1146.8300	3d6 4s 6D3/2 - 3d5 4s 4p 6D5/2'	4.2	1
Fe II	1147.4091	3d6 4s 6D7/2 - 3d5 4s 4p 6F7/2	4.2	1
Fe II - Ca X	1148.0790	3d6 4s 6D3/2 - 3d5 4s 4p 6D3/2	4.2	1
Fe II	1148.2770	3d6 4s 6D7/2 - 3d5 4s 4p 6F9/2	4.2	1
Ca III (*)	1148.3990	3s2 3p5 3d 3P1 - 3s2 3p5 4p 1S0	4.5	1
Si VI	1148.6300	2p4 3s 4P3/2 - 2p4 3p 4D5/2	5.6	1
Fe II	1149.5890	3d6 4s 6D1/2 - 3d5 4s 4p 6D3/2	4.2	1

S I (?)	1149.9900	3s2 3p4 1D2 - 3s2 3p3 9s 1D0	< 4.0	1
Fe II (*)	1150.2900	3d6 4s 6D5/2 - 3d5 4s 4p 6F3/2	4.2	1
Fe II	1150.4690	3d6 4s 6D1/2 - 3d5 4s 4p 6F1/2	4.2	1
Fe II (*)	1150.6851	3d6 4s 6D5/2 - 3d5 4s 4p 6F5/2	4.2	1
O III	1150.8820	2s 2p3 3S1 - 2p4 3P1	4.9	1
Fe II	1151.146	3d6 4s 6D5/2 - 3d5 4s 4p 6F7/2	4.2	1
O I	1152.1510	2s2 2p4 1D2 - 2s2 2p3 3s 1D2	< 4.0	1
Fe II - Si VI	1152.8750	3d6 4s 6D3/2 - 3d5 4s 4p 6F3/2	4.2	1
Fe II	1153.2720	3d6 4s 6D3/2 - 3d5 4s 4p 6F5/2	4.2	1
Fe II	1154.3990	3d6 4s 6D1/2 - 3d5 4s 4p 6F3/2	4.2	1
C I	1155.8090	2s2 2p2 3P0 - 2s2 2p 5d 3P1	< 4.0	1
C I	1156.1990	2s2 2p2 3P1 - 2s2 2p 5d 3P2	< 4.0	1
S I	1156.2600	3s2 3p4 3P2 - 3s2 3p3 3d 3P1	< 4.0	1
C I	1156.5601	2s2 2p2 3P2 - 2s2 2p 5d 3P2	< 4.0	1
C I	1157.4050	2s2 2p2 3P1 - 2s2 2p6 1P1	< 4.0	1
C I	1157.7700	2s2 2p2 3P1 - 2s2 2p5 3D2	< 4.0	1
C I	1158.0190	2s2 2p2 3P2 - 2s2 2p5 3D3	< 4.0	1
C I	1158.397	2s2 2p2 3P0 - 2s2 2p 6s 3P1	< 4.0	1
C I	1158.7321	2s2 2p2 3P1 - 2s2 2p 5d 3F2	< 4.0	1
C I	1158.9670	2s2 2p2 3P2 - 2s2 2p 5d 3F3	< 4.0	1
C I	1159.1260	2s2 2p2 3P2 - 2s2 2p 5d 3F2	< 4.0	1
Ni II	1159.5100	3d8 4s 4F9/2 - 3d7 4s 4p 4G9/2	4.1	1
S I	1160.7800	3s2 3p4 1D4 - 3s2 3p3 8s 1D2	< 4.0	1
S I	1161.3500	3s2 3p4 3P1 - 3s2 3p3 3d 3P2	< 4.0	1
S I	1161.5699	3s2 3p4 3P1 - 3s2 3p3 3d 3P1	< 4.0	1
S I	1161.7200	3s2 3p4 3P1 - 3s2 3p3 3d 3P0	< 4.0	1
S I	1161.9700	3s2 3p4 1D2 - 3s2 3p3 6d 1D2	< 4.0	1
N I	1163.8835	2s2 2p3 2D5/2 - 2s2 2p2 3d 2D5/2	< 4.0	1
N I	1164.0016	2s2 2p3 2D3/2 - 2s2 2p2 3d 2D5/2	< 4.0	1
N I	1167.4484	2s2 2p3 2D5/2 - 2s2 2p2 3d 2F7/2	< 4.0	1
Si VII	1167.775	2s3 3s 3S1 - 2p3 3p 3P2	5.7	3
S I	1168.0400	2s2 3p4 3P2 - 3s2 3p3 3d 1D2	< 4.0	1
N I (2)	1168.3344	2s2 2p3 2D3/2 - 2s2 2p2 3d 4P5/2	< 4.0	1
He I/2	584.334	1s2 1S0 - 1s 2p 1P1	4.5	1
C III	1174.9330	2s 2p 3P1 - 2p2 3P2	4.9	1
C III	1175.2629	2s 2p 3P0 - 2p2 3P1	4.9	1
C III	1175.7111	2s 2p 3P2 - 2p2 3P2	4.9	1
C III	1175.9871	2s 2p 3P1 - 2p2 3P0	4.9	1
C III	1176.3700	2s 2p 3P2 - 2p2 3P1	4.9	1
Ni II (*)	1177.109	3d8 4s 4F7/2 - 3d7 4s 4p 4F9/2	4.1	1

N I	1177.6948	2s2 2p3 2D3/2 - 2s2 2p2 4s 2P1/2	< 4.0	1
Si III	1178.004	3p2 3P2 - 3s 5p 3P2	4.7	1
Ni II	1178.5710	3d8 4s 2F5/2 - 3d7 4s 4p 2G7/2	4.1	1
S I	1181.5900	3s2 3p4 1D2 - 3s2 3p3 5d 1D2	< 4.0	1
Si VIII	1182.4550	2s2 2p2 3s 4P1/2 - 2s2 2p2 3p 4D3/2	5.9	2
He I/2 (*)	591.413	1s2 1S0 - 1s 2p 3P1	4.5	2
Fe II	1183.4380	3d7 a4f 4F7/2 - 3d6 4p v4d 4D7/2	4.2	1
Fe II	1183.8290	3d6 4s 4D7/2 - 3d5 4s 4p 4F9/2	4.2	1
Si VIII	1183.9950	2s2 2p2 3s 4P3/2 - 2s2 2p2 3p 4D5/2	5.9	2
N III	1184.5140	2s 2p2 2P3/2 - 2p3 2P3/2	5.0	1
Fe II	1185.7120	3d7 a4f 4F7/2 - 3d6 4p 4d 4D5/2	4.2	1
Fe II	1187.4170	3d6 4s a4d 4D3/2 - 3d6 4p 4do 4D5/2	4.2	1
C I	1188.8330	2s2 2p2 3P0 - 2s2 2p 4d 3P1	< 4.0	1
C I	1188.9919	2s2 2p2 3P1 - 2s2 2p 4d 3P0	< 4.0	1
C I	1189.2490	2s2 2p2 3P1 - 2s2 2p 4d 3P2	< 4.0	1
C I	1189.4470	2s2 2p2 3P2 - 2s2 2p 4d 3P1	< 4.0	1
C I	1189.6310	2s2 2p2 3P2 - 2s2 2p 4d 3P2	< 4.0	1
Mg VII	1189.8400	2s2 2p2 3P1 - 2s2 2p2 1S0	5.8	1
Mg VI	1190.0699	2s2 2p3 4S3/2 - 2s2 2p3 2P3/2	5.6	1
Si III	1190.1700	3s2 3p2 3P0 - 3s 3p3 3D1	4.7	1
Si II	1190.4156	3s2 3p 2P1/2 - 3s 3p2 2P3/2	4.3	1
Mg VI	1191.6400	2s2 2p3 4S3/2 - 2s2 2p3 2P1/2	5.6	1
C I	1191.8380	2s2 2p2 3P2 - 2s2 2p 4d 1F3	< 4.0	1
C I (2)	1193.0090	2s2 2p2 3P1 - 2s2 2p 4d 3D2	< 4.0	1
Si II	1193.2910	3s2 3p 2P1/2 - 3s 3p2 2P1/2	4.3	2
C I	1193.6790	2s2 2p2 3P1 - 2s2 2p 5s 3P2	< 4.0	1
S III - Ca VIII	1194.0490	3s2 3p2 3P1 - 3s 3p3 3D2	4.8	2
S III - Si II	1194.4430	3s2 3p2 3P1 - 3s 3p3 3D1	4.8	2
S X	1196.2170	2s2 2p3 4S3/2 - 2s2 2p3 2D5/2	6.1	2
Si II	1197.3950	3s2 3p 2P3/2 - 3s 3p2 2P1/2	4.3	2
C I (*)	1197.8770	2s2 2p2 3P1 - 2s2 2p 4d 1D2	< 4.0	1
S V - O III/2	1199.180	3s2 1S0 - 3s 3p 3P1	5.2	2
N I	1199.5520	2s2 2p3 4S3/2 - 2s2 2p2 3s 4P5/2	< 4.0	2
N I	1200.2260	2s2 2p3 4S3/2 - 2s2 2p2 3s 4P3/2	< 4.0	2
N I	1200.7120	2s2 2p3 4S3/2 - 2s2 2p2 3s 4P1/2	< 4.0	2
S III	1200.9611	3s2 3p2 3P2 - 3s 3p3 3D3	4.8	2
S I	1204.35	3s2 3p4 3P2 - 3s2 3p3 15d 3D3	< 4.0	1
Si III (2)	1206.5020	3s2 1S0 - 3s 3p 1P1	4.7	2
O V	1218.3929	2s2 1S0 - 2s 2p 3P1	5.5	2
Mg X/2	609.7940	1s2 2s 2S1/2 - 1s2 2p 2P3/2	6.0	2

S I (2)	1224.4790	32 3p4 3P1 - 32 3p3 9d 3D2	< 4.0	1
N I (2) (*)	1228.7911	2s2 2p3 2P3/2 - 2s2 2p2 4d 2P3/2	< 4.0	1
N I (*)	1228.9070	2s2 2p3 2P3/2 - 2s2 2p2 4d 4F5/2	< 4.0	1
S I	1229.6080	3s2 3p4 3P2 - 32 3p3 9s 3S1	< 4.0	1
S I	1230.4730	3s2 3p4 3P1 - 32 3p3 8d 3D2	< 4.0	1
Si VIII	1232.57	2s2 2p3 3s 4P5/2 - 2s2 2p3 3p 4D5/2	5.9	3
S I	1235.6240	32 3p4 3P1 - 32 3p3 9s 3S1	< 4.0	1
Al IV (?)	1237.1860	22 2p5 3p 3D3 - 22 2p5 3d 3F4	5.0	1
N V	1238.8210	2s 2S1/2 - 2p 2P3/2	5.4	1
Fe XII	1242.0300	3s2 3p3 4S3/2 - 3s2 3p3 2P3/2	6.1	1
C I	1242.278	2s2 2p2 1D2 - 2s2 2p 24d 1F3	< 4.0	1
N V	1242.8060	2s 2S1/2 - 2p 2P3/2	5.4	2
N I (2)	1243.1786	2s2 2p3 2D5/2 - 2s2 2p2 3s 2D5/2	< 4.0	1
N I	1243.3058	2s2 2p3 2P3/2 - 2s2 2p2 12s 2P3/2	< 4.0	1
C I	1243.518	2s2 2p2 1D2 - 2s2 2p 20d 1F3	< 4.0	1
C I	1243.7841	2s2 2p2 1D2 - 2s2 2p 22d 3F3	< 4.0	1
C I	1243.9980	2s2 2p2 1D2 - 2s2 2p 19d 1F3	< 4.0	1
C I	1244.5350	2s2 2p2 1D2 - 2s2 2p 18d 1F3	< 4.0	1
C I	1244.9960	2s2 2p2 1D2 - 2s2 2p 19d 3F3	< 4.0	1
C I	1245.1830	2s2 2p2 1D2 - 2s2 2p 17d 1F3	< 4.0	1
C I	1245.5380	2s2 2p2 1D2 - 2s2 2p 18d 3F3	< 4.0	1
C I	1245.9430	2s2 2p2 1D2 - 2s2 2p 16d 1F3	< 4.0	1
C I	1246.1801	2s2 2p2 1D2 - 2s2 2p 17d 3F3	< 4.0	1
C I	1246.8621	2s2 2p2 1D2 - 2s2 2p 15d 1F3	< 4.0	1
S I	1247.1600	3s2 3p4 3P2 - 3s2 3p3 6d 3D3	< 4.0	1
C III	1247.3831	2s 2p 1P1 - 2p2 1S0	4.9	1
C I	1247.8669	2s2 2p2 1D2 - 2s2 2p 15d 3F3	< 4.0	1
C I	1248.0090	2s2 2p2 1D2 - 2s2 2p 14d 1F3	< 4.0	1
C I	1249.0040	2s2 2p2 1D2 - 2s2 2p 14d 3F3	< 4.0	1
C I	1249.4050	2s2 2p2 1D2 - 2s2 2p 13d 1F3	< 4.0	1
Mg X/2	624.9430	1s2 2s 2S1/2 - 1s2 2p 2P1/2	6.0	1
C I	1250.423	2s2 2p2 1D2 - 2s2 2p 13d 3F3	< 4.0	1
S II	1250.5	3s2 3p3 4S3/2 - 3s 3p4 4P1/2	4.5	1
S I (*)	1250.814	3s2 3p4 3P0 - 3s2 3p3 8s 3S1	< 4.0	1
Si II	1251.164	3s 3p2 4P5/2 - 3p3 4S3/2	< 4.0	1
Si V (*)	1251.39	2s2 2p5 3s 3P2 - 2s2 2p5 3p 3D3	5.5	2
C I	1252.208	2s2 2p2 1D2 - 2s2 2p 12d 3F3	< 4.0	1
C I	1253.4670	2s2 2p2 1D2 - 2s2 2p 11d 1F3	< 4.0	1
S II	1253.7900	3s2 3p3 4S3/2 - 3s 3p4 4P3/2	4.5	1
C I	1254.5129	2s2 2p2 1D2 - 2s2 2p 11d 3F3	< 4.0	1

Si I	1255.2760	3s2 3p2 3P0 - 3s 3p3 3S0	< 4.0	1
Si I	1256.0930	3s2 3p4 3P0 - 3s2 3p3 6d 3D1	< 4.0	1
C I	1256.4980	2s2 2p2 1D2 - 2s2 2p 10d 1F3	< 4.0	1
C I	1257.5649	2s2 2p2 1D2 - 2s2 2p 10d 3F3	< 4.0	1
Si I	1258.7950	3s2 3p2 3P2 - 3s 3p3 3S1	< 4.0	1
S II	1259.58	3s2 3p2 4S3/2 - 3s 3p4 4P5/2	4.5	2