

ASD DATA INFORMATION
LINES LEVELS LIST OF SPECTRA GROUND STATES & IONIZATION ENERGIES Bibliography Help



NIST Atomic Spectra Database Lines Data

[Sr I](#): 361 Lines of Data Found

Example of how to reference these results:
 Ralchenko, Yu., Kramida, A.E., Reader, J., and NIST ASD Team (2011). *NIST Atomic Spectra Database* (ver. 4.1.0), [Online]. Available: <http://physics.nist.gov/asd3> [2011, August 24]. National Institute of Standards and Technology, Gaithersburg, MD.

Wavelength in: vacuum below 200 nm, air between 200 and 2000 nm, vacuum above 2000 nm
 Highest relative intensity: 29000

Some data for neutral and singly-charged ions are available in the [Handbook of Basic Atomic Spectroscopic Data](#)

<p style="text-align: center;">Primary data sources</p> <p>Energy Levels: Sansonetti and Nave 2010 (The energy of the $5s5f\ ^3F^o_4$ level has been adjusted to better fit the observed wavelengths)</p> <p>Lines: Sansonetti and Nave 2010 (Several misprints in the line list of Sansonetti and Nave have been corrected here. Observed intensities have been converted to a uniform scale, approximately the same as in Reader et al. 1980.)</p> <p>Transition Probabilities: Sansonetti and Nave 2010</p>	<p>Query NIST Bibliographic Databases for Sr I (new window)</p> <p>Sr I Energy Levels</p> <p>Sr I Line Wavelengths and Classification</p> <p>Sr I Transition Probabilities</p>
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Observed Wavelength Vac (nm)	Ritz Wavelength Vac (nm)	Rel. Int. (?)	A_{ki} (s ⁻¹)	Acc.	E_i (cm ⁻¹)	E_k (cm ⁻¹)	Configurations	Terms	$J_i - J_k$	g_i
167.613	167.6131				0.000	- 59 661.2	$5s^2 - 4d(^2D_{5/2})10f$	$^1S - ^2[3/2]^o$	0 - 1	1
168.462	168.4622	*			0.000	- 59 360.5	$5s^2 - 4d(^2D_{5/2})9f$	$^1S - ^2[3/2]^o$	0 - 1	1
168.462	168.4622	*			0.000	- 59 360.5	$5s^2 - 4d(^2D_{3/2})10f$	$^1S - ^2[3/2]^o$	0 - 1	1
168.809	168.8091				0.000	- 59 238.5	$5s^2 - 4d(^2D_{5/2})9f$	$^1S - ^2[1/2]^o$	0 - 1	1
169.397	169.3971				0.000	- 59 032.9	$5s^2 - 4d(^2D_{3/2})9f$	$^1S - ^2[3/2]^o$	0 - 1	1
169.576	169.5757				0.000	- 58 970.7	$5s^2 - 4d(^2D_{5/2})8f$	$^1S - ^2[3/2]^o$	0 - 1	1
169.703	169.7029				0.000	- 58 926.5	$5s^2 - 4d(^2D_{5/2})8f$	$^1S - ^2[1/2]^o$	0 - 1	1
170.320	170.3195				0.000	- 58 713.2	$5s^2 - 4d(^2D_{5/2})10p$	$^1S - ^2[3/2]^o$	0 - 1	1
170.595	170.5952				0.000	- 58 618.3	$5s^2 - 4d(^2D_{3/2})8f$	$^1S - ^2[3/2]^o$	0 - 1	1
171.058	171.0577				0.000	- 58 459.8	$5s^2 - 4d(^2D_{3/2})10p$	$^1S - ^2[3/2]^o$	0 - 1	1
171.167	171.1675				0.000	- 58 422.3	$5s^2 - 4d7f$	$^1S - (^5/2, ^7/2)^o$	0 - 1	1
171.244	171.2440				0.000	- 58 396.2	$5s^2 - 4d(^2D_{3/2})10p$	$^1S - ^2[1/2]^o$	0 - 1	1
171.565	171.5648				0.000	- 58 287.0	$5s^2 - 4d7f$	$^1S - (^5/2, ^5/2)^o$	0 - 1	1
172.171	172.171				0.000	- 58 081.8	$5s^2 - 4d9p$	$^1S - (^5/2, ^3/2)^o$	0 - 1	1
172.350	172.3499				0.000	- 58 021.5	$5s^2 - 4d7f$	$^1S - (^3/2, ^5/2)^o$	0 - 1	1
173.181	173.1806				0.000	- 57 743.2	$5s^2 - 4d9p$	$^1S - (^3/2, ^1/2)^o$	0 - 1	1
173.471	173.4705				0.000	- 57 646.7	$5s^2 - 4d9p$	$^1S - (^3/2, ^3/2)^o$	0 - 1	1

173.703	173.7031				0.000	- 57 569.5	5s ² - 4d6f	1S - (5/2, 7/2) ^o	0 - 1	1
173.982	173.9823				0.000	- 57 477.1	5s ² - 4d6f	1S - (5/2, 5/2) ^o	0 - 1	1
174.717	174.7167				0.000	- 57 235.5	5s ² - 4d6f	1S - (3/2, 5/2) ^o	0 - 1	1
175.622	175.622				0.000	- 56 940.5	5s ² - 4d(2D _{5/2})8p	1S - 2[3/2] ^o	0 - 1	1
176.647	176.6469				0.000	- 56 610.1	5s ² - 4d(2D _{3/2})8p	1S - 2[1/2] ^o	0 - 1	1
177.279	177.2792				0.000	- 56 408.2	5s ² - 4d(2D _{3/2})8p	1S - 2[3/2] ^o	0 - 1	1
178.032	178.0322				0.000	- 56 169.6	5s ² - 4d5f	1S - (5/2, 7/2) ^o	0 - 1	1
178.229	178.2287				0.000	- 56 107.7	5s ² - 4d5f	1S - (5/2, 5/2) ^o	0 - 1	1
179.060	179.0597				0.000	- 55 847.3	5s ² - 4d5f	1S - (3/2, 5/2) ^o	0 - 1	1
181.174	181.174				0.000	- 55 195.6	5s ² - 4d(2D _{5/2})7p	1S - 2[3/2] ^o	0 - 1	1
182.719	182.7195				0.000	- 54 728.7	5s ² - 4d(2D _{3/2})7p	1S - 2[3/2] ^o	0 - 1	1
186.755	186.7546				0.000	- 53 546.2	5s ² - 4d(2D _{5/2})4f	1S - 2[3/2] ^o	0 - 1	1
187.783	187.7828				0.000	- 53 253.0	5s ² - 4d(2D _{3/2})4f	1S - 2[3/2] ^o	0 - 1	1
195.70	195.699				0.000	- 51 099	5s ² - 4d6p	1S - 1P ^o	0 - 1	1
Observed Wavelength Air (nm)	Ritz Wavelength Air (nm)	Rel. Int. (?)	A _{ki} (s ⁻¹)	Acc.	E _i (cm ⁻¹)	E _k (cm ⁻¹)	Configurations	Terms	J _i - J _k	g _i
201.76	201.763				0.000	- 49 547	5s ² - 4d6p	1S - 3P ^o	0 - 1	1
202.321	202.3235				0.000	- 49 409.86	5s ² - 4d6p	1S - 3D ^o	0 - 1	1
219.3977	219.39814		2.56e+05	A'	0.000	- 45 565.00	5s ² - 5s20p	1S - 1P ^o	0 - 1	1
219.6214	219.62161		3.2e+05	B'	0.000	- 45 518.64	5s ² - 5s19p	1S - 1P ^o	0 - 1	1
219.7664	219.765764				0.000	- 45 488.7860	5s ² - 5s19s	1S - 1S	0 0	1
219.8892	219.89033		4.2e+05	B'	0.000	- 45 463.02	5s ² - 5s18p	1S - 1P ^o	0 - 1	1
220.0663	220.066879				0.000	- 45 426.5505	5s ² - 5s18s	1S - 1S	0 0	1
220.2176	220.21820		5.0e+05	B'	0.000	- 45 395.34	5s ² - 5s17p	1S - 1P ^o	0 - 1	1
220.4362	220.437273				0.000	- 45 350.2296	5s ² - 5s17s	1S - 1S	0 0	1
220.6239	220.62332		6.4e+05	B'	0.000	- 45 311.99	5s ² - 5s16p	1S - 1P ^o	0 - 1	1
220.9011	220.900063				0.000	- 45 255.2295	5s ² - 5s16s	1S - 1S	0 0	1

221.1310	221.13170		8.5e+05	B'	0.000	- 45 207.83	$5s^2 - 5s15p$	$^1S - ^1P^o$	0 - 1	1
221.4885	221.488923				0.000	- 45 134.9242	$5s^2 - 5s15s$	$^1S - ^1S$	0 0	1
221.7816	221.78198		1.17e+06	B'	0.000	- 45 075.29	$5s^2 - 5s14p$	$^1S - ^1P^o$	0 - 1	1
222.2564	222.254570				0.000	- 44 979.4540	$5s^2 - 5s14s$	$^1S - ^1S$	0 0	1
222.6304	222.63055		1.57e+06	B'	0.000	- 44 903.50	$5s^2 - 5s13p$	$^1S - ^1P^o$	0 - 1	1
223.2771	223.276170				0.000	- 44 773.6707	$5s^2 - 5s13s$	$^1S - ^1S$	0 0	1
223.4971	223.49604				0.000	- 44 729.627	$5s^2 - 4d^f$	$^1S - ^3P$	0 - 2	1
223.7655	223.76566		2.4e+06	B'	0.000	- 44 675.737	$5s^2 - 5s12p$	$^1S - ^1P^o$	0 - 1	1
224.5173	224.51906				0.000	- 44 525.838	$5s^2 - 4d^f$	$^1S - ^3P$	0 0	1
224.6863	224.685611				0.000	- 44 492.8348	$5s^2 - 5s12s$	$^1S - ^1S$	0 0	1
225.3256	225.32588		3.7e+06	B	0.000	- 44 366.42	$5s^2 - 5s11p$	$^1S - ^1P^o$	0 - 1	1
227.5304	227.52210		6.6e+06	B'	0.000	- 43 938.201	$5s^2 - 5s10p$	$^1S - ^1P^o$	0 - 1	1
230.7264	230.7264		1.15e+07	B'	0.000	- 43 328.04	$5s^2 - 5s9p$	$^1S - ^1P^o$	0 - 1	1
235.4319	235.43190	80	1.8e+07	C+	0.000	- 42 462.136	$5s^2 - 5s8p$	$^1S - ^1P^o$	0 - 1	1
242.8095	242.80949	160	1.7e+07	C+	0.000	- 41 172.054	$5s^2 - 4d5p$	$^1S - ^1P^o$	0 - 1	1
256.9469	256.94711	40	5.3e+06	B	0.000	- 38 906.858	$5s^2 - 5s7p$	$^1S - ^1P^o$	0 - 1	1
293.1830	293.18309	130	1.9e+06	C+	0.000	- 34 098.404	$5s^2 - 5s6p$	$^1S - ^1P^o$	0 - 1	1
317.228	317.235	w			18	218.784 - 49 732.0	$5s4d - 4d6p$	$^3D - ^3P^o$	2 - 2	5
317.903	317.9035				18	218.784 - 49 665.77	$5s4d - 4d6p$	$^3D - ^3D^o$	2 - 3	5
318.258	318.250	w			18	319.261 - 49 732.0	$5s4d - 4d6p$	$^3D - ^3P^o$	3 - 2	7
318.387	318.3868				18	159.040 - 49 558.30	$5s4d - 4d6p$	$^3D - ^3D^o$	1 - 2	3
318.923	318.9226				18	319.261 - 49 665.77	$5s4d - 4d6p$	$^3D - ^3D^o$	3 - 3	7
318.994	318.9937				18	218.784 - 49 558.30	$5s4d - 4d6p$	$^3D - ^3D^o$	2 - 2	5
319.900	319.8991				18	159.040 - 49 409.86	$5s4d - 4d6p$	$^3D - ^3D^o$	1 - 1	3
320.020	320.0198				18	319.261 - 49 558.30	$5s4d - 4d6p$	$^3D - ^3D^o$	3 - 2	7
320.511	320.5119				18	218.784 - 49 409.86	$5s4d - 4d6p$	$^3D - ^3D^o$	2 - 1	5
330.1734	330.17324	420h	5.9e+07	B'	14	317.507 - 44 595.920	$5s5p - 4d^f$	$^3P^o - ^3P$	0 - 1	1

330.7534	330.75352	430	14	504.334	- 44	729.627	$5s5p - 4d^f$	$^3P^o - ^3P$	1 - 2	3
332.2231	332.22322	260	14	504.334	- 44	595.920	$5s5p - 4d^f$	$^3P^o - ^3P$	1 - 1	3
332.9988	332.99879	270	14	504.334	- 44	525.838	$5s5p - 4d^f$	$^3P^o - ^3P$	1 - 0	3
335.1246	335.12450	1400	14	898.545	- 44	729.627	$5s5p - 4d^f$	$^3P^o - ^3P$	2 - 2	5
336.6333	336.63339	500	14	898.545	- 44	595.920	$5s5p - 4d^f$	$^3P^o - ^3P$	2 - 1	5
349.9672	349.96720	200h	14	504.334	- 43	070.268	$5s5p - 5s8d$	$^3P^o - ^3D$	1 - 2	3
354.8083	354.80831	190h	14	898.545	- 43	074.728	$5s5p - 5s8d$	$^3P^o - ^3D$	2 - 3	5
357.7243	357.720	30h	14	504.334	- 42	451.16	$5s5p - 5s9s$	$^3P^o - ^3S$	1 - 1	3
362.8345	362.839	40h	14	898.545	- 42	451.16	$5s5p - 5s9s$	$^3P^o - ^3S$	2 - 1	5
362.9144	362.91449	150h	14	317.507	- 41	864.354	$5s5p - 5s7d$	$^3P^o - ^3D$	0 - 1	1
363.9902	363.9902	60	18	159.040	- 45	624.48	$5s4d - 5s19f$	$^3D - ^3F^o$	1 - 2	3
364.3838	364.3838	70bl	18	218.784	- 45	654.56	$5s4d - 5s20f$	$^3D - ^3F^o$	2 - 3	5
364.4595	364.4596	60	18	159.040	- 45	589.11	$5s4d - 5s18f$	$^3D - ^3F^o$	1 - 2	3
364.7830	364.7830	90	18	218.784	- 45	624.53	$5s4d - 5s19f$	$^3D - ^3F^o$	2 - 3	5
365.0159	365.0159	80	18	159.040	- 45	547.30	$5s4d - 5s17f$	$^3D - ^3F^o$	1 - 2	3
365.2533	365.2533	90	18	218.784	- 45	589.25	$5s4d - 5s18f$	$^3D - ^3F^o$	2 - 3	5
365.3270	365.32706	180h	14	504.334	- 41	869.270	$5s5p - 5s7d$	$^3P^o - ^3D$	1 - 2	3
365.3928	365.39271	50h	14	504.334	- 41	864.354	$5s5p - 5s7d$	$^3P^o - ^3D$	1 - 1	3
365.6819	365.6819	80	18	159.040	- 45	497.42	$5s4d - 5s16f$	$^3D - ^3F^o$	1 - 2	3
365.7213	365.7213	80	18	319.261	- 45	654.70	$5s4d - 5s20f$	$^3D - ^3F^o$	3 - 4	7
365.8125	365.8125	100	18	218.784	- 45	547.41	$5s4d - 5s17f$	$^3D - ^3F^o$	2 - 3	5
366.1267	366.1267	100	18	319.261	- 45	624.43	$5s4d - 5s19f$	$^3D - ^3F^o$	3 - 4	7
366.4827	366.4827	110	18	218.784	- 45	497.43	$5s4d - 5s16f$	$^3D - ^3F^o$	2 - 3	5
366.4907	366.4907	90	18	159.040	- 45	437.09	$5s4d - 5s15f$	$^3D - ^3F^o$	1 - 2	3
366.5993	366.5993	120	18	319.261	- 45	589.23	$5s4d - 5s18f$	$^3D - ^3F^o$	3 - 4	7
367.1627	367.1627	120	18	319.261	- 45	547.39	$5s4d - 5s17f$	$^3D - ^3F^o$	3 - 4	7
367.2951	367.2951	120	18	218.784	- 45	437.10	$5s4d - 5s15f$	$^3D - ^3F^o$	2 - 3	5

367.4859	367.4859	80	18 159.040 - 45 363.22	5s4d - 5s14f	$^3D - ^3F^{\circ}$	1 - 2	3
367.8368	367.8368	140	18 319.261 - 45 497.49	5s4d - 5s16f	$^3D - ^3F^{\circ}$	3 - 4	7
368.2919	368.2919	130	18 218.784 - 45 363.43	5s4d - 5s14f	$^3D - ^3F^{\circ}$	2 - 3	5
368.6559	368.6559	140	18 319.261 - 45 437.11	5s4d - 5s15f	$^3D - ^3F^{\circ}$	3 - 4	7
368.7261	368.7262	90	18 159.040 - 45 271.72	5s4d - 5s13f	$^3D - ^3F^{\circ}$	1 - 2	3
369.5409	369.5409	150	18 218.784 - 45 271.69	5s4d - 5s13f	$^3D - ^3F^{\circ}$	2 - 3	5
369.6613	369.6614	150	18 319.261 - 45 363.35	5s4d - 5s14f	$^3D - ^3F^{\circ}$	3 - 4	7
370.3078	370.3078	100	18 159.040 - 45 155.92	5s4d - 5s12f	$^3D - ^3F^{\circ}$	1 - 2	3
370.5901	370.59012	250h	14 898.545 - 41 874.859	5s5p - 5s7d	$^3P^{\circ} - ^3D$	2 - 3	5
370.6674	370.66692	180	14 898.545 - 41 869.270	5s5p - 5s7d	$^3P^{\circ} - ^3D$	2 - 2	5
370.9173	370.9173	150	18 319.261 - 45 271.78	5s4d - 5s13f	$^3D - ^3F^{\circ}$	3 - 4	7
371.1279	371.1279	140	18 218.784 - 45 156.01	5s4d - 5s12f	$^3D - ^3F^{\circ}$	2 - 3	5
372.3628	372.3628	100	18 159.040 - 45 006.93	5s4d - 5s11f	$^3D - ^3F^{\circ}$	1 - 2	3
372.5165	372.5165	190	18 319.261 - 45 156.08	5s4d - 5s12f	$^3D - ^3F^{\circ}$	3 - 4	7
373.1926	373.1926	180	18 218.784 - 45 006.98	5s4d - 5s11f	$^3D - ^3F^{\circ}$	2 - 3	5
374.5958	374.5959	200	18 319.261 - 45 007.11	5s4d - 5s11f	$^3D - ^3F^{\circ}$	3 - 4	7
375.1070	375.1069	140	18 159.040 - 44 810.53	5s4d - 5s10f	$^3D - ^3F^{\circ}$	1 - 2	3
375.9493	375.9493	190	18 218.784 - 44 810.56	5s4d - 5s10f	$^3D - ^3F^{\circ}$	2 - 3	5
377.3730	377.3729	220	18 319.261 - 44 810.72	5s4d - 5s10f	$^3D - ^3F^{\circ}$	3 - 4	7
378.0527	378.0522	70	14 317.507 - 40 761.372	5s5p - 5s8s	$^3P^{\circ} - ^3S$	0 - 1	1
378.8918	378.8923	190	18 159.040 - 44 544.27	5s4d - 5s9f	$^3D - ^3F^{\circ}$	1 - 2	3
379.7502	379.7498	240	18 218.784 - 44 544.44	5s4d - 5s9f	$^3D - ^3F^{\circ}$	2 - 3	5
379.7526	379.7522	100	18 218.784 - 44 544.27	5s4d - 5s9f	$^3D - ^3F^{\circ}$	2 - 2	5
380.7424	380.7422	200	14 504.334 - 40 761.372	5s5p - 5s8s	$^3P^{\circ} - ^3S$	1 - 1	3
381.2020	381.2020	200	18 319.261 - 44 544.63	5s4d - 5s9f	$^3D - ^3F^{\circ}$	3 - 4	7
381.2044	381.2047	80	18 319.261 - 44 544.44	5s4d - 5s9f	$^3D - ^3F^{\circ}$	3 - 3	7
384.3325	384.3325	220	18 159.040 - 44 170.80	5s4d - 5s8f	$^3D - ^3F^{\circ}$	1 - 2	3

385.2144	385.2145	280	18 218.784 - 44 170.99	5s4d - 5s8f	³ D - ³ F°	2 - 3	5
386.5451	386.5457	240	14 898.545 - 40 761.372	5s5p - 5s8s	³ P° - ³ S	2 - 1	5
386.7067	386.7068	290	18 319.261 - 44 171.32	5s4d - 5s8f	³ D - ³ F°	3 - 4	7
391.9566	391.9566	250	20 149.685 - 45 655.49	5s4d - 5s20f	¹ D - ¹ F°	2 - 3	5
392.4184	392.4183	280	20 149.685 - 45 625.48	5s4d - 5s19f	¹ D - ¹ F°	2 - 3	5
392.5872	392.5869	280	18 159.040 - 43 623.896	5s4d - 5s7f	³ D - ³ F°	1 - 2	3
392.9607	392.9607	280	20 149.685 - 45 590.32	5s4d - 5s18f	¹ D - ¹ F°	2 - 3	5
393.3523	393.3522	140	20 149.685 - 45 565.00	5s4d - 5s20p	¹ D - ¹ P°	2 - 1	5
393.5056	393.5054	290	18 218.784 - 43 624.205	5s4d - 5s7f	³ D - ³ F°	2 - 3	5
393.5099	393.5102	110	18 218.784 - 43 623.896	5s4d - 5s7f	³ D - ³ F°	2 - 2	5
393.6037	393.6037	260	20 149.685 - 45 548.76	5s4d - 5s17f	¹ D - ¹ F°	2 - 3	5
394.0711	394.0710	170	20 149.685 - 45 518.64	5s4d - 5s19p	¹ D - ¹ P°	2 - 1	5
394.0800	394.0808	500	14 317.507 - 39 685.830	5s5p - 5s6d	³ P° - ³ D	0 - 1	1
394.3747	394.3746	230	20 149.685 - 45 499.11	5s4d - 5s16f	¹ D - ¹ F°	2 - 3	5
394.9374	394.9369	150	20 149.685 - 45 463.02	5s4d - 5s18p	¹ D - ¹ P°	2 - 1	5
395.0636	395.06361	210	18 319.261 - 43 624.479	5s4d - 5s7f	³ D - ³ F°	3 - 4	7
395.0670	395.0679	150	18 319.261 - 43 624.205	5s4d - 5s7f	³ D - ³ F°	3 - 3	7
395.3095	395.3095	240	20 149.685 - 45 439.16	5s4d - 5s15f	¹ D - ¹ F°	2 - 3	5
395.9961	395.9957	150	20 149.685 - 45 395.34	5s4d - 5s17p	¹ D - ¹ P°	2 - 1	5
396.2611	396.26133		14 504.334 - 39 733.067	5s5p - 5s6d	³ P° - ¹ D	1 - 2	3
396.4581	396.4581	220	20 149.685 - 45 365.90	5s4d - 5s14f	¹ D - ¹ F°	2 - 3	5
396.9261	396.92631	700	14 504.334 - 39 690.802	5s5p - 5s6d	³ P° - ³ D	1 - 2	3
397.0043	397.0047	500	14 504.334 - 39 685.830	5s5p - 5s6d	³ P° - ³ D	1 - 1	3
397.3072	397.3075	190	20 149.685 - 45 311.99	5s4d - 5s16p	¹ D - ¹ P°	2 - 1	5
397.8929	397.8929	260	20 149.685 - 45 274.97	5s4d - 5s13f	¹ D - ¹ F°	2 - 3	5
398.9593	398.9590	260	20 149.685 - 45 207.83	5s4d - 5s15p	¹ D - ¹ P°	2 - 1	5
399.7174	399.7174	300	20 149.685 - 45 160.29	5s4d - 5s12f	¹ D - ¹ F°	2 - 3	5

401.0806	401.0805	350	20 149.685 - 45 075.29	5s4d - 5s14p	¹ D - ¹ P°	2 - 1	5
402.0882	402.0883	360	20 149.685 - 45 012.82	5s4d - 5s11f	¹ D - ¹ F°	2 - 3	5
403.0377	403.03772	1000	14 898.545 - 39 703.109	5s5p - 5s6d	³ P° - ³ D	2 - 3	5
403.2379	403.23780	500	14 898.545 - 39 690.802	5s5p - 5s6d	³ P° - ³ D	2 - 2	5
403.3181	403.3187	150	14 898.545 - 39 685.830	5s5p - 5s6d	³ P° - ³ D	2 - 1	5
403.3191	403.3187	160	14 898.545 - 39 685.830	5s5p - 5s6d	³ P° - ³ D	2 - 1	5
403.8642	403.8640	370	20 149.685 - 44 903.50	5s4d - 5s13p	¹ D - ¹ P°	2 - 1	5
405.2512	405.2512	420	20 149.685 - 44 818.77	5s4d - 5s10f	¹ D - ¹ F°	2 - 3	5
406.0923	406.0924	390	18 159.040 - 42 777.023	5s4d - 5s6f	³ D - ³ F°	1 - 2	3
407.0718	407.0717	440	18 218.784 - 42 777.547	5s4d - 5s6f	³ D - ³ F°	2 - 3	5
407.0805	407.0804	360	18 218.784 - 42 777.023	5s4d - 5s6f	³ D - ³ F°	2 - 2	5
407.6147	407.6146	410	20 149.685 - 44 675.737	5s4d - 5s12p	¹ D - ¹ P°	2 - 1	5
408.7344	408.73442	340r	18 319.261 - 42 778.121	5s4d - 5s6f	³ D - ³ F°	3 - 4	7
408.7442	408.7440	290	18 319.261 - 42 777.547	5s4d - 5s6f	³ D - ³ F°	3 - 3	7
409.6063	409.6064	500	20 149.685 - 44 556.48	5s4d - 5s9f	¹ D - ¹ F°	2 - 3	5
412.8213	412.8211	500	20 149.685 - 44 366.42	5s4d - 5s11p	¹ D - ¹ P°	2 - 1	5
415.8526	415.8526	600	20 149.685 - 44 189.889	5s4d - 5s8f	¹ D - ¹ F°	2 - 3	5
418.5424	418.54204	520	21 698.452 - 45 584.1831	5s5p - 5s20d	¹ P° - ¹ D	1 - 2	3
419.2777	419.27733	530	21 698.452 - 45 542.2955	5s5p - 5s19d	¹ P° - ¹ D	1 - 2	3
419.3148	419.31414	320	21 698.452 - 45 540.2024	5s5p - 5s20s	¹ P° - ¹ S	1 - 0	3
420.1534	420.15285	500	21 698.452 - 45 492.6101	5s5p - 5s18d	¹ P° - ¹ D	1 - 2	3
420.2209	420.22039	430	21 698.452 - 45 488.7860	5s5p - 5s19s	¹ P° - ¹ S	1 - 0	3
420.2522	420.2525	190	20 149.685 - 43 938.201	5s4d - 5s10p	¹ D - ¹ P°	2 - 1	5
420.3780	420.378	320	21 698.452 - 45 479.88	5s5p - 5s18d	¹ P° - ³ D	1 - 2	3
421.2036	421.20328	700	21 698.452 - 45 433.2717	5s5p - 5s17d	¹ P° - ¹ D	1 - 2	3
421.3230	421.32259	440	21 698.452 - 45 426.5505	5s5p - 5s18s	¹ P° - ¹ S	1 - 0	3
421.4246	421.424	440	21 698.452 - 45 420.84	5s5p - 5s17d	¹ P° - ³ D	1 - 2	3

422.4698	422.46964	700			21 698.452 - 45 362.1272	5s5p - 5s16d	¹ P° - ¹ D	1 - 2	3
422.6771	422.680	450			21 698.452 - 45 350.35	5s5p - 5s16d	¹ P° - ³ D	1 - 2	3
422.6826	422.68216	450			21 698.452 - 45 350.2296	5s5p - 5s17s	¹ P° - ¹ S	1 - 0	3
424.0010	424.001	600			21 698.452 - 45 276.65	5s5p - 5s15d	¹ P° - ³ D	1 - 2	3
424.2399	424.23569	600			21 698.452 - 45 263.6196	5s5p - 5s15d	¹ P° - ¹ D	1 - 2	3
424.3868	424.38679	500			21 698.452 - 45 255.2295	5s5p - 5s16s	¹ P° - ¹ S	1 - 0	3
425.2939	425.2939	700	7.7e+06	C	20 149.685 - 43 656.219	5s4d - 5s7f	¹ D - ¹ F°	2 - 3	5
425.8745	425.8739	240			20 149.685 - 43 624.205	5s4d - 5s7f	¹ D - ³ F°	2 - 3	5
425.9013	425.901	420			21 698.452 - 45 171.49	5s5p - 5s14d	¹ P° - ³ D	1 - 2	3
426.232	426.23151	700			21 698.452 - 45 153.2785	5s5p - 5s14d	¹ P° - ¹ D	1 - 2	3
426.5660	426.56532	500			21 698.452 - 45 134.9242	5s5p - 5s15s	¹ P° - ¹ S	1 - 0	3
428.8145	428.81403	600			21 698.452 - 45 012.0249	5s5p - 5s13d	¹ P° - ¹ D	1 - 2	3
429.4148	429.41397	600			21 698.452 - 44 979.4540	5s5p - 5s14s	¹ P° - ¹ S	1 - 0	3
430.8105	430.8100	700h			18 159.040 - 41 364.602	5s4d - 5s5f	³ D - ³ F°	1 - 2	3
431.3182	431.3157	110h	1.3e+07	C'	20 149.685 - 43 328.04	5s4d - 5s9p	¹ D - ¹ P°	2 - 1	5
431.9053	431.9056	900h			18 218.784 - 41 365.482	5s4d - 5s5f	³ D - ³ F°	2 - 3	5
431.9220	431.9220	340			18 218.784 - 41 364.602	5s4d - 5s5f	³ D - ³ F°	2 - 2	5
432.1953	432.19475	600			21 698.452 - 44 829.6648	5s5p - 5s12d	¹ P° - ¹ D	1 - 2	3
432.6445	432.64449	300	3.1e+06	A'	14 317.507 - 37 424.675	5s5p - 5s7s	³ P° - ³ S	0 - 1	1
433.2439	433.24353	600			21 698.452 - 44 773.6707	5s5p - 5s13s	¹ P° - ¹ S	1 - 0	3
433.7664	433.766	1100h			18 319.261 - 41 366.67	5s4d - 5s5f	³ D - ³ F°	3 - 4	7
433.7891	433.7887	420			18 319.261 - 41 365.482	5s4d - 5s5f	³ D - ³ F°	3 - 3	7
434.075	434.07205	700			21 698.452 - 44 729.627	5s5p - 4d ^f	¹ P° - ³ P	1 - 2	3
436.1710	436.17110	800	9.7e+06	B+	14 504.334 - 37 424.675	5s5p - 5s7s	³ P° - ³ S	1 - 1	3
436.620	436.60681				21 698.452 - 44 595.920	5s5p - 4d ^f	¹ P° - ³ P	1 - 1	3
436.9365	436.93562	700			21 698.452 - 44 578.6890	5s5p - 5s11d	¹ P° - ¹ D	1 - 2	3
437.947	437.94725	680			21 698.452 - 44 525.838	5s5p - 4d ^f	¹ P° - ³ P	1 - 0	3

438.5820	438.58135	800			21 698.452 - 44 492.8348	5s5p - 5s12s	¹ P° - ¹ S	1 - 0	3
439.286	439.286				21 698.452 - 44 456.25	5s5p - 5s12s	¹ P° - ³ S	1 - 1	3
440.6009	440.6009	410	1.2e+07	C	20 149.685 - 42 839.589	5s4d - 5s6f	¹ D - ¹ F°	2 - 3	5
441.2621	441.26220	160			14 504.334 - 37 160.234	5s5p - 5p ²	³ P° - ¹ S	1 - 0	3
441.8087	441.8090	400			20 149.685 - 42 777.547	5s4d - 5s6f	¹ D - ³ F°	2 - 3	5
442.577	442.580				21 698.452 - 44 286.91	5s5p - 5s10d	¹ P° - ³ D	1 - 2	3
443.470	443.51146				21 698.452 - 44 239.4549	5s5p - 5s10d	¹ P° - ¹ D	1 - 2	3
443.8044	443.80430	1000	1.55e+07	B+	14 898.545 - 37 424.675	5s5p - 5s7s	³ P° - ³ S	2 - 1	5
445.1804	445.18025	90			14 504.334 - 36 960.842	5s5p - 5p ²	³ P° - ¹ D	1 - 2	3
446.3301	446.32981	1000			21 698.452 - 44 097.1224	5s5p - 5s11s	¹ P° - ¹ S	1 - 0	3
447.404	447.404				21 698.452 - 44 043.35	5s5p - 5s11s	¹ P° - ³ S	1 - 1	3
448.0507	448.0545	440h	1.9e+07	C+	20 149.685 - 42 462.136	5s4d - 5s8p	¹ D - ¹ P°	2 - 1	5
452.2301	452.2301	470			21 698.452 - 43 804.890	5s5p - 5s9d	¹ P° - ³ D	1 - 2	3
453.1348	453.13490	500			14 898.545 - 36 960.842	5s5p - 5p ²	³ P° - ¹ D	2 - 2	5
453.2375	453.2375	1000			21 698.452 - 43 755.755	5s5p - 5s9d	¹ P° - ¹ D	1 - 2	3
458.2993	458.29879	1100			21 698.452 - 43 512.1658	5s5p - 5s10s	¹ P° - ¹ S	1 - 0	3
460.086	460.086				21 698.452 - 43 427.44	5s5p - 5s10s	¹ P° - ³ S	1 - 1	3
460.7331	460.73330	29000r	2.01e+08	AA	0.000 - 21 698.452	5s ² - 5s5p	¹ S - ¹ P°	0 - 1	1
467.7750	467.77503	600			21 698.452 - 43 070.268	5s5p - 5s8d	¹ P° - ³ D	1 - 2	3
467.8326	467.829	1000h	1.9e+07	C	20 149.685 - 41 519.04	5s4d - 5s5f	¹ D - ¹ F°	2 - 3	5
468.8546	468.8546	1400			21 698.452 - 43 021.058	5s5p - 5s8d	¹ P° - ¹ D	1 - 2	3
470.3984	470.39840	110			18 159.040 - 39 411.669	5s4d - 5s7p	³ D - ³ P°	1 - 0	3
471.2146	471.2151	1000			20 149.685 - 41 365.482	5s4d - 5s5f	¹ D - ³ F°	2 - 3	5
471.2347	471.2346	600			20 149.685 - 41 364.602	5s4d - 5s5f	¹ D - ³ F°	2 - 2	5
471.3959	471.39590	160			18 218.784 - 39 426.442	5s4d - 5s7p	³ D - ³ P°	2 - 1	5
472.2278	472.22769	1600	3.6e+07	B+	14 504.334 - 35 674.637	5s5p - 5p ²	³ P° - ³ P	1 - 2	3
472.9466	472.94662	220h			18 319.261 - 39 457.383	5s4d - 5s7p	³ D - ³ P°	3 - 2	7

474.1922	474.19221	1600	3.9e+07	B+	14	317.507	- 35	400.105	5s5p - 5p ²	³ P° - ³ P	0 - 1	1
475.5495	475.5508	700h	2.1e+07	C+	20	149.685	- 41	172.054	5s4d - 4d5p	¹ D - ¹ P°	2 - 1	5
478.3782	478.3782	1500			21	698.452	- 42	596.572	5s5p - 5s9s	¹ P° - ¹ S	1 - 0	3
478.4320	478.43198	1700	3.0e+07	B+	14	504.334	- 35	400.105	5s5p - 5p ²	³ P° - ³ P	1 - 1	3
481.1881	481.18799	2300	9.0e+07	B+	14	898.545	- 35	674.637	5s5p - 5p ²	³ P° - ³ P	2 - 2	5
483.2043	483.20425	2900	3.3e+07	A'	14	317.507	- 35	006.908	5s5p - 5s5d	³ P° - ³ D	0 - 1	1
485.5045	485.50448	1200	2.63e+07	B+	18	159.040	- 38	750.420	5s4d - 5s4f	³ D - ³ F°	1 - 2	3
486.8700	486.87005	1200	3.4e+07	A'	18	218.784	- 38	752.410	5s4d - 5s4f	³ D - ³ F°	2 - 3	5
486.9170	486.91724	1100	7.5e+06	B+	18	218.784	- 38	750.420	5s4d - 5s4f	³ D - ³ F°	2 - 2	5
487.2493	487.2490	1500	4.8e+07	A'	14	504.334	- 35	021.989	5s5p - 5s5d	³ P° - ³ D	1 - 2	3
487.6075	487.60745	1200	2.63e+07	B+	14	504.334	- 35	006.908	5s5p - 5s5d	³ P° - ³ D	1 - 1	3
489.1980	489.19800	1500	3.8e+07	B	18	319.261	- 38	755.175	5s4d - 5s4f	³ D - ³ F°	3 - 4	7
489.2639	489.26420	1100	4.3e+06	B+	18	319.261	- 38	752.410	5s4d - 5s4f	³ D - ³ F°	3 - 3	7
495.6277	495.6274	1300			21	698.452	- 41	869.270	5s5p - 5s7d	¹ P° - ³ D	1 - 2	3
496.2263	496.22630	2500	6.14e+07	AA	14	898.545	- 35	045.019	5s5p - 5s5d	³ P° - ³ D	2 - 3	5
496.5584	496.5585	1900			21	698.452	- 41	831.448	5s5p - 5s7d	¹ P° - ¹ D	1 - 2	3
496.7944	496.7942	1200	1.28e+07	B+	14	898.545	- 35	021.989	5s5p - 5s5d	³ P° - ³ D	2 - 2	5
497.1668	497.16680	120	1.3e+06	B+	14	898.545	- 35	006.908	5s5p - 5s5d	³ P° - ³ D	2 - 1	5
507.7692	507.7697	900			18	319.261	- 38	007.742	5s4d - 4d5p	³ D - ¹ F°	3 - 3	7
515.6040	515.60400	500	2.7e+07	C'	20	149.685	- 39	539.013	5s4d - 5s4f	¹ D - ¹ F°	2 - 3	5
516.5486	516.5486	1800			21	698.452	- 41	052.324	5s5p - 5s8s	¹ P° - ¹ S	1 - 0	3
521.2978	521.29787	200	1.9e+06	A'	18	159.040	- 37	336.591	5s4d - 4d5p	³ D - ³ P°	1 - 2	3
522.2198	522.21992	1400	3.4e+07	A'	18	159.040	- 37	302.731	5s4d - 4d5p	³ D - ³ P°	1 - 1	3
522.5108	522.51079	1400			18	159.040	- 37	292.074	5s4d - 4d5p	³ D - ³ P°	1 - 0	3
522.9270	522.92697	1400	2.27e+07	B+	18	218.784	- 37	336.591	5s4d - 4d5p	³ D - ³ P°	2 - 2	5
523.8549	523.85479	2000	7.3e+07	B+	18	218.784	- 37	302.731	5s4d - 4d5p	³ D - ³ P°	2 - 1	5
525.6899	525.68986	3400	8.1e+07	B+	18	319.261	- 37	336.591	5s4d - 4d5p	³ D - ³ P°	3 - 2	7

532.9813	532.9811	500	1.7e+07	C+	20 149.685 - 38 906.858	5s4d - 5s7p	¹ D - ¹ P°	2 - 1	5
537.4069	537.40621	290			20 149.685 - 38 752.410	5s4d - 5s4f	¹ D - ³ F°	2 - 3	5
545.0836	545.08373	1000	1.47e+07	B+	18 218.784 - 36 559.492	5s4d - 4d5p	³ D - ³ D°	2 - 3	5
548.0865	548.08638	2700	7.9e+07	A'	18 319.261 - 36 559.492	5s4d - 4d5p	³ D - ³ D°	3 - 3	7
548.6136	548.6135	1000	1.53e+07	B+	18 159.040 - 36 381.746	5s4d - 4d5p	³ D - ³ D°	1 - 2	3
550.4184	550.4181	2000	5.4e+07	B+	18 218.784 - 36 381.746	5s4d - 4d5p	³ D - ³ D°	2 - 2	5
552.1765	552.1768	1700	6.3e+07	A'	18 159.040 - 36 264.151	5s4d - 4d5p	³ D - ³ D°	1 - 1	3
553.4794	553.4799	1000	2.27e+07	B+	18 319.261 - 36 381.746	5s4d - 4d5p	³ D - ³ D°	3 - 2	7
554.0051	554.0050	1000	2.84e+07	B+	18 218.784 - 36 264.151	5s4d - 4d5p	³ D - ³ D°	2 - 1	5
554.3355	554.3353	1000h			21 698.452 - 39 733.067	5s5p - 5s6d	¹ P° - ¹ D	1 - 2	3
555.6384	555.6375	1400			21 698.452 - 39 690.802	5s5p - 5s6d	¹ P° - ³ D	1 - 2	3
555.7908	555.7910	600			21 698.452 - 39 685.830	5s5p - 5s6d	¹ P° - ³ D	1 - 1	3
559.8163	559.8159	1200	3.0e+05	C'	20 149.685 - 38 007.742	5s4d - 4d5p	¹ D - ¹ F°	2 - 3	5
581.6771	581.67702	1500	3.0e+05	B+	20 149.685 - 37 336.591	5s4d - 4d5p	¹ D - ³ P°	2 - 2	5
597.0078	597.0078	600h			21 698.452 - 38 444.013	5s5p - 5s7s	¹ P° - ¹ S	1 - 0	3
615.8951	615.8943	350			20 149.685 - 36 381.746	5s4d - 4d5p	¹ D - ³ D°	2 - 2	5
620.3901	620.3888	80			20 149.685 - 36 264.151	5s4d - 4d5p	¹ D - ³ D°	2 - 1	5
627.2042	627.2041	80	1.4e+04	C+	18 159.040 - 34 098.404	5s4d - 5s6p	³ D - ¹ P°	1 - 1	3
634.5726	634.57265	1400	2.1e+06	C+	18 218.784 - 33 973.065	5s4d - 5s6p	³ D - ³ P°	2 - 2	5
636.3910	636.3906	200	3.7e+06	C+'	18 159.040 - 33 868.317	5s4d - 5s6p	³ D - ³ P°	1 - 1	3
636.9918	636.9918	500	1.8e+07	C+'	18 159.040 - 33 853.490	5s4d - 5s6p	³ D - ³ P°	1 - 0	3
638.0728	638.07290	1000	5.2e+06	C+	18 159.040 - 33 826.899	5s4d - 4d5p	³ D - ¹ D°	1 - 2	3
638.6458	638.64581	1300	1.1e+07	C+	18 319.261 - 33 973.065	5s4d - 5s6p	³ D - ³ P°	3 - 2	7
638.8203	638.8201	800	1.4e+07	C+	18 218.784 - 33 868.317	5s4d - 5s6p	³ D - ³ P°	2 - 1	5
640.8463	640.8463	3100	2.4e+07	C+	18 319.261 - 33 919.315	5s4d - 4d5p	³ D - ³ F°	3 - 4	7
644.6654	644.66536	350	1.5e+06	C+	18 319.261 - 33 826.899	5s4d - 4d5p	³ D - ¹ D°	3 - 2	7
646.5774	646.5773	280			21 698.452 - 37 160.234	5s5p - 5p ²	¹ P° - ¹ S	1 - 0	3

650.3989	650.3992	2100	2.0e+07	C+	18 218.784 - 33 589.709	5s4d - 4d5p	³ D - ³ F°	2 - 3	5
654.6791	654.6788	500	3.8e+06	C+	18 319.261 - 33 589.709	5s4d - 4d5p	³ D - ³ F°	3 - 3	7
655.0244	655.0244	1400	8.9e+07	C	21 698.452 - 36 960.842	5s5p - 5p ²	¹ P° - ¹ D	1 - 2	3
661.7266	661.72651	1100	1.6e+07	C+	18 159.040 - 33 266.851	5s4d - 4d5p	³ D - ³ F°	1 - 2	3
664.3536	664.35372	400	4.4e+06	C+	18 218.784 - 33 266.851	5s4d - 4d5p	³ D - ³ F°	2 - 2	5
679.1022	679.10198	7000	8.9e+06	B+'	14 317.507 - 29 038.773	5s5p - 5s6s	³ P° - ³ S	0 - 1	1
687.8313	687.83128	12000	2.7e+07	B+	14 504.334 - 29 038.773	5s5p - 5s6s	³ P° - ³ S	1 - 1	3
689.2585	689.25894	2300	4.69e+04	A+	0.000 - 14 504.334	5s ² - 5s5p	¹ S - ³ P°	0 - 1	1
707.0071	707.0072	14000	4.2e+07	B	14 898.545 - 29 038.773	5s5p - 5s6s	³ P° - ³ S	2 - 1	5
715.302	715.3057	170			21 698.452 - 35 674.637	5s5p - 5p ²	¹ P° - ³ P	1 - 2	3
716.7143	716.7142	1100l	9.4e+06	C+	20 149.685 - 34 098.404	5s4d - 5s6p	¹ D - ¹ P°	2 - 1	5
723.2131	723.2128	440l	6.0e+06	C+	20 149.685 - 33 973.065	5s4d - 5s6p	¹ D - ³ P°	2 - 2	5
728.7344	728.7349	70h	1.6e+06	C+	20 149.685 - 33 868.317	5s4d - 5s6p	¹ D - ³ P°	2 - 1	5
730.9417	730.94166	1700	3.9e+07	C+	20 149.685 - 33 826.899	5s4d - 4d5p	¹ D - ¹ D°	2 - 2	5
740.812	740.8117	17			21 698.452 - 35 193.442	5s5p - 5p ²	¹ P° - ³ P	1 - 0	3
743.842	743.8414	10	5.0e+05	A'	20 149.685 - 33 589.709	5s4d - 4d5p	¹ D - ³ F°	2 - 3	5
750.338	750.3448	3			21 698.452 - 35 021.989	5s5p - 5s5d	¹ P° - ³ D	1 - 2	3
762.1500	762.14999	100	7.8e+06	A'	20 149.685 - 33 266.851	5s4d - 4d5p	¹ D - ³ F°	2 - 2	5
767.3077	767.3077	200s	6.6e+06	C	21 698.452 - 34 727.447	5s5p - 5s5d	¹ P° - ¹ D	1 - 2	3
917.00	916.9500	40			33 826.899 - 44 729.627	4d5p - 4d ^f	¹ D° - ³ P	2 - 2	5
920.45	920.4467	30			33 868.317 - 44 729.627	5s6p - 4d ^f	³ P° - ³ P	1 - 2	3
928.39	928.3348	20			33 826.899 - 44 595.920	4d5p - 4d ^f	¹ D° - ³ P	2 - 1	5
929.41	929.4100	100			33 973.065 - 44 729.627	5s6p - 4d ^f	³ P° - ³ P	2 - 2	5
930.66	930.6327	15			33 853.490 - 44 595.920	5s6p - 4d ^f	³ P° - ³ P	0 - 1	1
931.92	931.9190	30			33 868.317 - 44 595.920	5s6p - 4d ^f	³ P° - ³ P	1 - 1	3
938.045	938.0471	60			33 868.317 - 44 525.838	5s6p - 4d ^f	³ P° - ³ P	1 - 0	3
959.60	959.5577	600			29 038.773 - 39 457.383	5s6s - 5s7p	³ S - ³ P°	1 - 2	3

962.47	962.4159	300			29 038.773 - 39 426.442	5s6s - 5s7p	³ S - ³ P°	1 - 1	3
963.81	963.7866	100			29 038.773 - 39 411.669	5s6s - 5s7p	³ S - ³ P°	1 - 0	3
981.73	981.668	4			41 172.054 - 51 356.00	4d5p - 4d5d	¹ P° - ¹ D	1 - 2	3
1 003.6659	1 003.530	300bl*			35 045.019 - 45 007.11	5s5d - 5s11f	³ D - ³ F°	3 - 4	7
1 003.6659	1 003.543	300bl*			35 045.019 - 45 006.98	5s5d - 5s11f	³ D - ³ F°	3 - 3	7
1 086.43	1 086.4285	4			33 868.317 - 43 070.268	5s6p - 5s8d	³ P° - ³ D	1 - 2	3
1 098.40	1 098.3995	10			33 973.065 - 43 074.728	5s6p - 5s8d	³ P° - ³ D	2 - 3	5
1 124.125	1 124.1249	700			21 698.452 - 30 591.825	5s5p - 5s6s	¹ P° - ¹ S	1 - 0	3
1 204.77	1 204.8064	8			29 038.773 - 37 336.591	5s6s - 4d5p	³ S - ³ P°	1 - 2	3
1 209.80	1 209.7429	4bl			29 038.773 - 37 302.731	5s6s - 4d5p	³ S - ³ P°	1 - 1	3
1 217.16	1 217.0748	15s			36 381.746 - 44 595.920	4d5p - 4d ^f	³ D° - ³ P	2 - 1	5
1 223.62	1 223.6352	20			36 559.492 - 44 729.627	4d5p - 4d ^f	³ D° - ³ P	3 - 2	7
1 242.24	1 241.881	10*			34 727.447 - 42 777.547	5s5d - 5s6f	¹ D - ³ F°	2 - 3	5
1 242.24	1 242.2110	10*			33 826.899 - 41 874.859	4d5p - 5s7d	¹ D° - ³ D	2 - 3	5
1 247.96	1 247.9634	20			33 853.490 - 41 864.354	5s6p - 5s7d	³ P° - ³ D	0 - 1	1
1 249.50	1 249.5093	40			33 868.317 - 41 869.270	5s6p - 5s7d	³ P° - ³ D	1 - 2	3
1 250.24	1 250.2775	12			33 868.317 - 41 864.354	5s6p - 5s7d	³ P° - ³ D	1 - 1	3
1 255.50	1 255.444	5			33 868.317 - 41 831.448	5s6p - 5s7d	³ P° - ¹ D	1 - 2	3
1 265.22	1 265.1893	15			33 973.065 - 41 874.859	5s6p - 5s7d	³ P° - ³ D	2 - 3	5
1 266.15	1 266.0848	3			33 973.065 - 41 869.270	5s6p - 5s7d	³ P° - ³ D	2 - 2	5
1 292.86	1 292.7885	10*			35 045.019 - 42 778.121	5s5d - 5s6f	³ D - ³ F°	3 - 4	7
1 292.86	1 292.798	10*			34 098.404 - 41 831.448	5s6p - 5s7d	¹ P° - ¹ D	1 - 2	3
1 346.11	1 346.0894	6			37 302.731 - 44 729.627	4d5p - 4d ^f	³ P° - ³ P	1 - 2	3
1 352.28	1 352.2545	15			37 336.591 - 44 729.627	4d5p - 4d ^f	³ P° - ³ P	2 - 2	5
1 450.09	1 450.339	3			33 868.317 - 40 761.372	5s6p - 5s8s	³ P° - ³ S	1 - 1	3
1 472.00	1 472.01	6	6.1e+05	C	34 727.447 - 41 519.04	5s5d - 5s5f	¹ D - ¹ F°	2 - 3	5
1 472.51	1 472.719	4			33 973.065 - 40 761.372	5s6p - 5s8s	³ P° - ³ S	2 - 1	5

1 551.22	1 551.261	7	8.0e+05	C	34 727.447	- 41 172.054	5s5d - 4d5p	¹ D - ¹ P°	2 - 1	5
1 572.64	1 572.468	5			35 006.908	- 41 364.602	5s5d - 5s5f	³ D - ³ F°	1 - 2	3
1 576.11	1 575.988	8*			35 021.989	- 41 365.482	5s5d - 5s5f	³ D - ³ F°	2 - 3	5
1 576.11	1 576.207	8*			35 021.989	- 41 364.602	5s5d - 5s5f	³ D - ³ F°	2 - 2	5
1 581.67	1 581.43	5*			35 045.019	- 41 366.67	5s5d - 5s5f	³ D - ³ F°	3 - 4	7
1 581.67	1 581.730	5*			35 045.019	- 41 365.482	5s5d - 5s5f	³ D - ³ F°	3 - 3	7
1 701.38	1 701.312	3			33 826.899	- 39 703.109	4d5p - 5s6d	¹ D° - ³ D	2 - 3	5
1 704.86	1 704.883	1			33 826.899	- 39 690.802	4d5p - 5s6d	¹ D° - ³ D	2 - 2	5
1 714.09	1 714.110	15			33 853.490	- 39 685.830	5s6p - 5s6d	³ P° - ³ D	0 - 1	1
1 717.05	1 717.011	30			33 868.317	- 39 690.802	5s6p - 5s6d	³ P° - ³ D	1 - 2	3
1 718.44	1 718.478	10			33 868.317	- 39 685.830	5s6p - 5s6d	³ P° - ³ D	1 - 1	3
1 744.74	1 744.711	50			33 973.065	- 39 703.109	5s6p - 5s6d	³ P° - ³ D	2 - 3	5
1 748.47	1 748.466	10			33 973.065	- 39 690.802	5s6p - 5s6d	³ P° - ³ D	2 - 2	5
1 770.89	1 770.8854	8			14 504.334	- 20 149.685	5s5p - 5s4d	³ P° - ¹ D	1 - 2	3
1 774.30	1 774.244	30			34 098.404	- 39 733.067	5s6p - 5s6d	¹ P° - ¹ D	1 - 2	3
1 975.96	1 975.889	15			29 038.773	- 34 098.404	5s6s - 5s6p	³ S - ¹ P°	1 - 1	3
Observed Wavelength Vac (nm)	Ritz Wavelength Vac (nm)	Rel. Int. (?)	A _{ki} (s ⁻¹)	Acc.	E _i (cm ⁻¹)	E _k (cm ⁻¹)	Configurations	Terms	J _i - J _k	g _i
2 026.70	2 026.6332	230			29 038.773	- 33 973.065	5s6s - 5s6p	³ S - ³ P°	1 - 2	3
2 070.63	2 070.589	120			29 038.773	- 33 868.317	5s6s - 5s6p	³ S - ³ P°	1 - 1	3
2 077.01	2 076.965	40			29 038.773	- 33 853.490	5s6s - 5s6p	³ S - ³ P°	1 - 0	3
2 078.44	2 078.325	15	3.9e+06	C	34 727.447	- 39 539.013	5s5d - 5s4f	¹ D - ¹ F°	2 - 3	5
2 088.47	2 088.4998	10			29 038.773	- 33 826.899	5s6s - 4d5p	³ S - ¹ D°	1 - 2	3
2 603.07	2 603.1274	30			14 317.507	- 18 159.040	5s5p - 5s4d	³ P° - ³ D	0 - 1	1

Query time: 1.7 sec

ASD	DATA	INFORMATION		
	LINES LEVELS	LIST OF SPECTRA	GROUND STATES & IONIZATION ENERGIES	BIBLIOGRAPHY HELP

