

UV Spectral Lines Detected by UVCS/SOHO

Ch [†]	λ (Å)*	Line	Log T	Electronic Transition	Target [#]
	943.61	[Ca XIV]	5.9	$2s^2 2p^3 \ ^4S_{3/2} \rightarrow 2s^2 2p^3 \ ^2D_{3/2}$	2,3
	944.40	[Si VIII]	5.9	$2s^2 2p^3 \ ^4S_{3/2} \rightarrow 2s^2 2p^3 \ ^2P_{3/2}$	1,2,3
	944.52	S VI	5.3	$3s \ ^2S_{1/2} \rightarrow 3p \ ^2P_{1/2}$	3
	945.88	K XIII	6.4	$2p^3 \ ^4S_{3/2} \rightarrow 2p^3 \ ^2D_{5/2}$	2
	949.20	[Si VIII]	5.9	$2s^2 2p^3 \ ^4S_{3/2} \rightarrow 2s^2 2p^3 \ ^2D_{1/2}$	2,3
	949.74	H I Ly δ	4.5	$1s \ ^2S_{1/2} \rightarrow 5p \ ^2P_{1/2,3/2}$	1,2,3
	950.08	[Si IX]	6.1	$2s^2 2p^2 \ ^3P_1 \rightarrow 2s^2 2p^2 \ ^1S_0$	1,3
	481.49	[Fe XV]	6.3	$3s^2 \ ^1S_0 \rightarrow 3s3p \ ^3P_1$	1,2
	968.87	Ti XVI	6.7	$2p^3 \ ^2S_{3/2} \rightarrow 2p^3 \ ^2P_{3/2}$	2,3
	972.54	H I Ly γ	4.5	$1s \ ^2S_{1/2} \rightarrow 4p \ ^2P_{1/2,3/2}$	1,2,3
	487.06	[Fe XIII]	6.2	$3s^2 3p^2 \ ^3P_0 \rightarrow 3s^2 3p^2 \ ^3P_1$	1,2,3
	974.86	[Fe XVIII]	6.9	$2s^2 2p^5 \ ^2P_{3/2} \rightarrow 2s^2 2p^5 \ ^2P_{1/2}$	3
	977.02	C III	4.8	$2s^2 \ ^1S_0 \rightarrow 2s2p \ ^1P_1$	3,5
	490.20	[Ar XIII]	6.5	$2s^2 2p^2 \ ^3P_1 \rightarrow 2s^2 2p^2 \ ^1S_0$	2
	491.46	Si XIII]	6.4	$2s^2 \ ^1S_0 \rightarrow 2s2p \ ^3P_1$	2,3
	988.77	O I	4.0	$2p^4 \ ^3P_2 \rightarrow 2p^3 3s \ ^3S_1$	5
	989.79	N III	4.8	$2s^2 2p^2 \ ^2P_{1/2} \rightarrow 2s2p^2 \ ^2D_{3/2}$	3
	990.20	O I	4.0	$2p^4 \ ^3P_1 \rightarrow 2p^3 3s \ ^3S_1$	5
	991.58	N III	4.8	$2s^2 2p^2 \ ^2P_{3/2} \rightarrow 2s2p^2 \ ^2D_{5/2}$	3
	496.25	[Ar XIV]	6.6	$2s^2 2p^2 \ ^2P_{1/2} \rightarrow 2s^2 2p^2 \ ^2P_{3/2}$	1,2
	994.44	[K XIII]	6.4	$2p^3 \ ^4S_{3/2} \rightarrow 2p^3 \ ^2D_{3/2}$	2
	499.37	Si XII	6.3	$2s \ ^2S_{1/2} \rightarrow 2p \ ^2P_{3/2}$	1,2,3
	999.27	Ne VI	5.6	$2s^2 2p^2 \ ^2P_{1/2} \rightarrow 2s2p^2 \ ^2D_{3/2}$	3
	1018.60	[Ar XII]	6.4	$2s^2 2p^3 \ ^4S_{3/2} \rightarrow 2s^2 2p^3 \ ^2D_{5/2}$	1,2
	510.05	[Fe XIII]	6.2	$3s^2 3p^2 \ ^3P_1 \rightarrow 3s^2 3p^2 \ ^3P_2$	1,2
	1025.72	H I Ly β	4.5	$1s \ ^2S_{1/2} \rightarrow 3p \ ^2P_{1/2,3/2}$	1,2,3,4,5
	1027.43	O I	4.5	$2p^4 \ ^3P_2 \rightarrow 2p^3 3d \ ^3D_3$	5
	1028.04	Fe X	6.1	$3s^2 3p^5 \ ^2P_{3/2} \rightarrow 3s^2 3p^4 4s \ ^2D_{5/2}$	1,2,3
	1031.91	O VI	5.4	$2s \ ^2S_{1/2} \rightarrow 2p \ ^2P_{3/2}$	1,2,3,4
	1033.04	[Ni XV]	6.4	$3s^2 3p^2 \ ^3P_1 \rightarrow 3s^2 3p^2 \ ^1S_0$	2,3
	1034.88	[Ni XIV]	6.3	$3p^3 \ ^4S_{3/2} \rightarrow 3p^3 \ ^2P_{3/2}$	2
	1036.34	C II	4.6	$2s^2 2p^2 \ ^2P_{1/2} \rightarrow 2s2p^2 \ ^2S_{1/2}$	3,5
	1037.02	C II	4.6	$2s^2 2p^2 \ ^2P_{3/2} \rightarrow 2s2p^2 \ ^2S_{1/2}$	3,5
	1037.61	O VI	5.4	$2s \ ^2S_{1/2} \rightarrow 2p \ ^2P_{1/2}$	1,2,3,4
	520.66	Si XII	6.3	$2s \ ^2S_{1/2} \rightarrow 2p \ ^2P_{1/2}$	1,2,3
	522.21	He I	4.5	$1s^2 \ ^1S_0 \rightarrow 1s4p \ ^1P_1$	3
	1054.90	[Ar XII]	6.4	$2s^2 2p^3 \ ^4S_{3/2} \rightarrow 2s^2 2p^3 \ ^2D_{3/2}$	1,2
	535.32	S XII]	6.4	$2s^2 2p^2 \ ^2P_{1/2} \rightarrow 2s \ 2p^2 \ ^4P_{3/2}$	1,2
	1084.56	N II	4.6	$2s^2 2p^2 \ ^3P_0 \rightarrow 2s2p^3 \ ^3D_1$	3
	1084.98	He II	4.9	$1s \ ^2S_{1/2} \rightarrow 2p \ ^2P_{1/2,3/2}$	3
	1098.44	[Ca XV]	6.6	$2p^2 \ ^3P_1 \rightarrow 2p^2 \ ^1D_2$	2,3
	550.01	Al XI	6.9	$2s \ ^2S_{1/2} \rightarrow 2p \ ^2P_{3/2}$	1,2
	557.74	Ca X	5.9	$3s \ ^2S_{1/2} \rightarrow 3p \ ^2P_{3/2}$	1,2
	1153.20	Fe XVII	6.7	$3s \ ^1P_1 \rightarrow 3s \ ^1P_0$	2
	584.33	He I	4.5	$1s^2 \ ^1S_0 \rightarrow 1s2p \ ^1P_1$	6
	1174.72	[Ni XIV]	6.3	$3p^3 \ ^4S_{3/2} \rightarrow 3p^3 \ ^2P_{1/2}$	2
	1176.00	C III [‡]	4.9	$2s2p \ ^3P_2 \rightarrow 2p^2 \ ^3P_2$	3,7
	594.00	[Fe XIX]	6.8	$2s^2 2p^4 \ ^3P_2 \rightarrow 2s^2 2p^4 \ ^1D_2$	2
	1196.25	[S X]	6.1	$2s^2 2p^3 \ ^4S_{3/2} \rightarrow 2s^2 2p^3 \ ^2D_{3/2}$	1,2
	1199.18	S V]	5.2	$3s^2 \ ^1S_0 \rightarrow 3s3p \ ^3P_1$	1,2,3
	599.60	O III	4.9	$2s^2 2p^2 \ ^1D_2 \rightarrow 2s^2 2p^3 \ ^1D_2$	3
	1206.51	Si III	4.7	$3s^2 \ ^1S_0 \rightarrow 3s3p \ ^1P_1$	3,5,7
	1213.80	O V]	5.3	$2s^2 \ ^1S_0 \rightarrow 2s2p \ ^3P_1$	3
	1215.67	H I Ly α	4.5	$1s \ ^2S_{1/2} \rightarrow 2p \ ^2P_{1/2,3/2}$	1,2,3,4,5
	1218.35	[O V]	5.3	$2s^2 \ ^1S_0 \rightarrow 2s2p \ ^3P_1$	3
	609.76	Mg X	5.8	$2s \ ^2S_{1/2} \rightarrow 2p \ ^2P_{3/2}$	1,2,3,4
	1238.82	N V	5.2	$2s \ ^2S_{1/2} \rightarrow 2p \ ^2P_{3/2}$	1,2,3,4
	1242.03	[Fe XII]	6.2	$3p^3 \ ^4S_{3/2} \rightarrow 3p^3 \ ^2P_{3/2}$	1,2
	1242.80	N V	5.2	$2s \ ^2S_{1/2} \rightarrow 2p \ ^2P_{1/2}$	3
	1248.10	Ne IX	6.2	$1s2s \ ^3S_1 \rightarrow 1s2p \ ^3P_2$	2
	624.93	Mg X	5.8	$2s \ ^2S_{1/2} \rightarrow 2p \ ^2P_{1/2}$	1,2,3,4
	629.73	O V	5.3	$2s^2 \ ^1S_0 \rightarrow 2s2p \ ^1P_1$	1,3
	1264.74	Si II	4.5	$3s^2 3p^2 \ ^2P_{1/2} \rightarrow 3s^2 3d \ ^2D_{3/2}$	7
	1277.23	[Ni XIII]	6.2	$3s^2 3p^4 \ ^3P_2 \rightarrow 3s^2 3p^4 \ ^1D_2$	2
	1303.32	Si III	4.7	$3s3p \ ^3P_2 \rightarrow 3p^2 \ ^3P_2$	3
	1349.39	[Fe XII]	6.2	$3p^3 \ ^4S_{3/2} \rightarrow 3p^3 \ ^2P_{1/2}$	1,2

[†] The first column indicates the channel in which the spectral line was observed.
According to the following convention: blue: OVI, green: LYA and redundant OVI,
gray: LYA, red: redundant OVI.

* Wavelengths and lines labeled in blue color are detected at second order.

[‡] CIII multiplet at 1175.71, 1175.99 and 1176.37 Å.

[#] Structures in which spectral lines have been observed, 1: Streamers, 2: Active Regions,
3: CME, 4: Coronal Holes, 5: Comets, 6: Helium focusing cone, 7: Stray light