

Transition Probabilities for Allowed Lines of Hydrogen

λ Å	Weights		A 10^8 s^{-1}	λ Å	Weights		A 10^8 s^{-1}	λ Å	Weights		A 10^8 s^{-1}
	g_1	g_2			g_1	g_2			g_1	g_2	
Hydrogen HI				Hydrogen HI				Hydrogen HI			
912.768	2	1800	5.167E-06	3666.10	8	1458	4.826E-06	8665.02	18	338	1.343E-04
912.839	2	1682	6.122E-06	3667.68	8	1352	5.830E-06	8750.48	18	288	2.021E-04
912.918	2	1568	7.297E-06	3669.46	8	1250	7.096E-06	8862.79	18	242	3.156E-04
913.006	2	1458	8.753E-06	3671.48	8	1152	8.707E-06	9014.91	18	200	5.156E-04
913.104	2	1352	1.057E-05	3673.76	8	1058	1.078E-05	9229.02	18	162	8.905E-04
913.215	2	1250	1.286E-05	3676.36	8	968	1.347E-05	9545.97	18	128	1.651E-03
913.339	2	1152	1.578E-05	3679.35	8	882	1.700E-05	10049.4	18	98	3.358E-03
913.480	2	1058	1.952E-05	3682.81	8	800	2.172E-05	10938.1	18	72	7.783E-03
913.641	2	968	2.438E-05	3686.83	8	722	2.809E-05	12818.1	18	50	2.201E-02
913.826	2	882	3.077E-05	3691.55	8	648	3.685E-05	16407.2	32	288	1.620E-04
914.039	2	800	3.928E-05	3697.15	8	578	4.910E-05	16806.5	32	242	2.556E-04
914.286	2	722	5.077E-05	3703.85	8	512	6.658E-05	17362.1	32	200	4.235E-04
914.576	2	648	6.654E-05	3711.97	8	450	9.210E-05	18174.1	32	162	7.459E-04
914.919	2	578	8.858E-05	3721.94	8	392	1.303E-04	18751.0	18	32	8.986E-02
915.329	2	512	1.200E-04	3734.37	8	338	1.893E-04	19445.6	32	128	1.424E-03
915.824	2	450	1.657E-04	3750.15	8	288	2.834E-04	21655.3	32	98	3.041E-03
916.429	2	392	2.341E-04	3770.63	8	242	4.397E-04	26251.5	32	72	7.711E-03
917.181	2	338	3.393E-04	3797.90	8	200	7.122E-04	27575	50	288	1.402E-04
918.129	2	288	5.066E-04	3835.38	8	162	1.216E-03	28722	50	242	2.246E-04
919.351	2	242	7.834E-04	3889.05	8	128	2.215E-03	30384	50	200	3.800E-04
920.963	2	200	1.263E-03	3970.07	8	98	4.389E-03	32961	50	162	6.908E-04
923.150	2	162	2.143E-03	4101.73	8	72	9.732E-03	37395	50	128	1.388E-03
926.226	2	128	3.869E-03	4340.46	8	50	2.530E-02	40511.5	32	50	2.699E-02
930.748	2	98	7.568E-03	4861.32	8	32	8.419E-02	43753	72	288	1.288E-04
937.803	2	72	1.644E-02	6562.80	8	18	4.410E-01	46525	50	98	3.253E-03
949.743	2	50	4.125E-02	8392.40	18	800	1.517E-05	46712	72	242	2.110E-04
972.537	2	32	1.278E-01	8413.32	18	722	1.964E-05	51273	72	200	3.688E-04
1025.72	2	18	5.575E-01	8437.96	18	648	2.580E-05	59066	72	162	7.065E-04
1215.67	2	8	4.699E+00	8467.26	18	578	3.444E-05	74578	50	72	1.025E-02
3662.26	8	1800	2.847E-06	8502.49	18	512	4.680E-05	75004	72	128	1.561E-03
3663.40	8	1682	3.374E-06	8545.39	18	450	6.490E-05	123680	72	98	4.561E-03
3664.68	8	1568	4.022E-06	8598.40	18	392	9.211E-05				

H I

$6.96 \times 10^{-13} \text{ eV}$

Table II

I.P. = 13.595 eV

T [°K]	Z (T, ΔE)					
	ΔE = 0.10	ΔE = 0.25	ΔE = 0.50	ΔE = 1.0	ΔE = 2.0	ΔE = 3.0 eV
3250.	2.000	2.000	2.000	2.000	2.000	2.000
6500.	2.000	2.000	2.000	2.000	2.000	2.000
6824.	2.000	2.000	2.000	2.000	2.000	2.000
7166.	2.000	2.000	2.000	2.000	2.000	2.000
7524.	2.000	2.000	2.000	2.000	2.000	2.000
7900.	2.000	2.000	2.000	2.000	2.000	2.000
8295.	2.000	2.000	2.000	2.000	2.000	2.000
8710.	2.000	2.000	2.000	2.000	2.000	2.000
9146.	2.000	2.000	2.000	2.000	2.000	2.000
9603.	2.000	2.000	2.000	2.000	2.000	2.000
10083.	2.000	2.000	2.000	2.000	2.000	2.000
10587.	2.001	2.000	2.000	2.000	2.000	2.000
11117.	2.001	2.001	2.000	2.000	2.000	2.000
11673.	2.003	2.001	2.001	2.001	2.001	2.000
12256.	2.005	2.002	2.001	2.001	2.001	2.001
12869.	2.008	2.004	2.002	2.002	2.001	2.001
13513.	2.015	2.006	2.004	2.003	2.002	2.002
14188.	2.025	2.010	2.006	2.005	2.004	2.003
14898.	2.042	2.017	2.010	2.008	2.006	2.004
15643.	2.068	2.027	2.016	2.012	2.009	2.006
16425.	2.108	2.043	2.025	2.018	2.013	2.009
17246.	2.168	2.065	2.037	2.027	2.020	2.014
18108.	2.256	2.098	2.055	2.040	2.028	2.019
19014.	2.384	2.145	2.080	2.058	2.040	2.027
19964.	2.564	2.211	2.115	2.082	2.057	2.037
20963.	2.814	2.301	2.162	2.114	2.078	2.051
22011.	3.154	2.422	2.225	2.157	2.106	2.068
23111.	3.610	2.584	2.308	2.213	2.142	2.089
24267.	4.211	2.795	2.415	2.286	2.188	2.116
25480.	4.991	3.066	2.551	2.377	2.246	2.150
26754.	5.990	3.412	2.724	2.491	2.318	2.191