

STARK BROADENING PARAMETER TABLES FOR In II

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SUMMARY: Electron-, proton-, and ionized helium-impact broadening parameter tables for In II spectral lines, are presented as a function of the temperature and the perturber density. Calculations have been performed within the semiclassical perturbation approach.

1. INTRODUCTION

With the development of space technology and satellite born astronomical instruments astrophysical interest for data on trace element spectral lines increases.

In order to continue our efforts to provide to astrophysicists and plasma physicists Stark broadening data needed for the consideration and modeling of astrophysical and laboratory plasmas as well as laser produced and fusion plasmas, we have calculated within the semiclassical-perturbation formalism (Sahal-Bréchet, 1969ab, see also Sahal-Bréchet, 1974, Fleurier *et al.* 1977, Dimitrijević and Sahal-Bréchet, 1984, Dimitrijević *et al.* 1991, Dimitrijević and Sahal-Bréchet, 1995) electron-, proton-, and He II-impact line widths and shifts for 145 In II multiplets. The used formalism has been reviewed briefly in Dimitrijević and Sahal-Bréchet, 1995.

2. RESULTS AND DISCUSSION

All relevant details concerning the obtained results and the calculation procedure, as well as the comparison with experimental (N'Dollo and Fabry, 1987) and other theoretical data (N'Dollo and Fabry, 1987, Lakićević, 1983) will be published in Dimitrijević and Sahal-Bréchet, 2001. Here, we present only tables of Stark broadening parameters. Atomic energy levels needed for calculations have been taken from Moore (1971). Our results for 145 In II multiplets are shown in Table 1, for perturber densities $10^{13} - 10^{15} \text{ cm}^{-3}$ and $10^{17} - 10^{19} \text{ cm}^{-3}$ respectively. The temperature range is $T = 5\,000 - 100\,000 \text{ K}$. Stark broadening parameters for densities lower than tabulated, are linear with perturber density. We also specify a parameter C (Dimitrijević and Sahal-Bréchet 1984), which gives an estimate for the maximum perturber density for which the line may be treated

Table 1. This Table shows electron-, proton-, and He II-impact broadening parameters for In II for perturber densities of $10^{13} - 10^{15} \text{ cm}^{-3}$ and $10^{17} - 10^{19} \text{ cm}^{-3}$ and temperatures from 5 000 up to 100 000 K. Stark broadening parameters for densities lower than for tabulated values, are linear with perturber density. Transitions and averaged wavelengths for the multiplet (in Å) are also given. By dividing C by the corresponding full width at half maximum (Dimitrijević *et al.*, 1991), we obtain an estimate for the maximum perturber density for which the line may be treated as isolated and tabulated data may be used. The asterisk identifies cases for which the collision volume multiplied by the perturber density (the condition for validity of the impact approximation) lies between 0.1 and 0.5.

PERTURBERS ARE: TRANSITION	T(K)	ELECTRONS		PROTONS		IONIZED HELIUM	
		WIDTH (Å)	SHIFT (Å)	WIDTH (Å)	SHIFT (Å)	WIDTH (Å)	SHIFT (Å)
PERTURBER DENSITY = 1.E+13 cm ⁻³							
SINGLETs							
In II 6P-6D 5920.4 Å C=0.32E+16	5000. 10000. 20000. 30000. 50000. 100000.	0.118E-02 0.102E-02 0.939E-03 0.903E-03 0.857E-03 0.785E-03	-0.282E-04 0.380E-05 0.684E-05 0.451E-05 0.920E-05 0.774E-05	0.892E-04 0.112E-03 0.131E-03 0.144E-03 0.154E-03 0.170E-03	0.476E-04 0.632E-04 0.758E-04 0.842E-04 0.936E-04 0.107E-03	0.100E-03 0.116E-03 0.131E-03 0.138E-03 0.145E-03 0.153E-03	0.414E-04 0.517E-04 0.617E-04 0.678E-04 0.754E-04 0.855E-04
In II 6P-7D 3903.2 Å C=0.11E+16	5000. 10000. 20000. 30000. 50000. 100000.	0.827E-03 0.757E-03 0.745E-03 0.744E-03 0.736E-03 0.702E-03	-0.228E-05 0.812E-05 0.563E-05 0.580E-05 0.104E-04 0.333E-05	0.953E-04 0.110E-03 0.125E-03 0.131E-03 0.140E-03 0.153E-03	0.411E-04 0.506E-04 0.602E-04 0.660E-04 0.739E-04 0.854E-04	0.101E-03 0.114E-03 0.124E-03 0.128E-03 0.131E-03 0.137E-03	0.344E-04 0.412E-04 0.491E-04 0.538E-04 0.588E-04 0.665E-04
In II 8D-9P C=0.23E+19	5000. 10000. 20000. 30000. 50000. 100000.	10.9 10.2 10.0 10.2 10.2 9.72	-4.73 -3.96 -3.38 -3.01 -2.52 -1.91	1.52 1.76 1.92 2.06 2.21 2.49	-0.940 -1.12 -1.26 -1.36 -1.53 -1.70	1.51 1.64 1.77 1.80 1.98 2.14	-0.763 -0.896 -1.03 -1.09 -1.22 -1.37
In II 5D-9F 3053.1 Å C=0.11E+15	5000. 10000. 20000. 30000. 50000. 100000.	0.692E-02 0.628E-02 0.624E-02 0.621E-02 0.601E-02 0.561E-02	0.454E-02 0.391E-02 0.327E-02 0.297E-02 0.245E-02 0.185E-02	0.127E-02 0.152E-02 0.156E-02 0.190E-02 0.180E-02 0.247E-02	0.105E-02 0.124E-02 0.137E-02 0.154E-02 0.161E-02 0.198E-02	0.111E-02 0.125E-02 0.136E-02 0.143E-02 0.170E-02 0.173E-02	0.864E-03 0.971E-03 0.107E-02 0.118E-02 0.125E-02 0.137E-02
In II 6D-8F 5413.2 Å C=0.47E+15	5000. 10000. 20000. 30000. 50000. 100000.	0.134E-01 0.122E-01 0.120E-01 0.119E-01 0.116E-01 0.108E-01	0.845E-02 0.732E-02 0.607E-02 0.552E-02 0.455E-02 0.345E-02	0.227E-02 0.257E-02 0.307E-02 0.333E-02 0.359E-02 0.394E-02	0.192E-02 0.219E-02 0.256E-02 0.276E-02 0.290E-02 0.312E-02	0.200E-02 0.222E-02 0.257E-02 0.249E-02 0.290E-02 0.335E-02	0.155E-02 0.175E-02 0.198E-02 0.223E-02 0.225E-02 0.288E-02
In II 6D-9F 5008.2 Å C=0.29E+15	5000. 10000. 20000. 30000. 50000. 100000.	0.187E-01 0.171E-01 0.170E-01 0.170E-01 0.164E-01 0.153E-01	0.122E-01 0.104E-01 0.872E-02 0.792E-02 0.651E-02 0.493E-02	0.340E-02 0.407E-02 0.419E-02 0.509E-02 0.485E-02 0.664E-02	0.282E-02 0.332E-02 0.368E-02 0.416E-02 0.432E-02 0.533E-02	0.299E-02 0.335E-02 0.365E-02 0.383E-02 0.458E-02 0.461E-02	0.232E-02 0.261E-02 0.287E-02 0.316E-02 0.338E-02 0.365E-02
In II 7D-9F 8898.5 Å C=0.91E+15	5000. 10000. 20000. 30000. 50000. 100000.	0.599E-01 0.549E-01 0.551E-01 0.549E-01 0.534E-01 0.500E-01	0.383E-01 0.329E-01 0.275E-01 0.250E-01 0.205E-01 0.155E-01	0.108E-01 0.128E-01 0.132E-01 0.160E-01 0.152E-01 0.209E-01	0.890E-02 0.105E-01 0.116E-01 0.132E-01 0.136E-01 0.169E-01	0.943E-02 0.106E-01 0.115E-01 0.121E-01 0.144E-01 0.145E-01	0.731E-02 0.826E-02 0.904E-02 0.993E-02 0.107E-01 0.115E-01
In II 8D-9F 16051.6 Å C=0.30E+16	5000. 10000. 20000. 30000. 50000. 100000.	0.201 0.187 0.189 0.189 0.185 0.174	0.124 0.107 0.893E-01 0.811E-01 0.667E-01 0.506E-01	0.353E-01 0.417E-01 0.430E-01 0.511E-01 0.491E-01 0.664E-01	0.288E-01 0.338E-01 0.369E-01 0.424E-01 0.436E-01 0.544E-01	0.307E-01 0.344E-01 0.377E-01 0.398E-01 0.465E-01 0.473E-01	0.236E-01 0.267E-01 0.293E-01 0.321E-01 0.343E-01 0.368E-01

STARK BROADENING PARAMETER TABLES FOR In II

PERTURBERS ARE: TRANSITION	T(K)	ELECTRONS		PROTONS		IONIZED HELIUM	
		WIDTH (Å)	SHIFT (Å)	WIDTH (Å)	SHIFT (Å)	WIDTH (Å)	SHIFT (Å)
In II 9D-9F 31701.9 Å C=0.12E+17	5000.	0.822	0.478	0.139	0.111	0.120	0.900E-01
	10000.	0.794	0.413	0.161	0.131	0.133	0.101
	20000.	0.811	0.347	0.172	0.140	0.148	0.113
	30000.	0.815	0.314	0.195	0.163	0.157	0.122
	50000.	0.805	0.260	0.192	0.164	0.186	0.133
	100000.	0.760	0.197	0.255	0.212	0.191	0.141
In II 7F-9D C=0.83E+18	5000.	13.3	-4.99	1.63	-1.04	1.59	-0.847
	10000.	13.2	-4.67	1.86	-1.23	1.74	-0.987
	20000.	13.6	-3.96	2.04	-1.40	1.88	-1.14
	30000.	13.8	-3.48	2.15	-1.49	1.93	-1.20
	50000.	13.8	-3.05	2.40	-1.67	2.12	-1.38
	100000.	13.2	-2.33	2.71	-1.87	2.31	-1.51
TRIPLETS							
In II 8P-9D 13567.2 Å C=0.69E+16	5000.	0.162E-01	0.125E-03	0.507E-02	-0.120E-02	0.539E-02	-0.989E-03
	10000.	0.135E-01	0.597E-03	0.558E-02	-0.145E-02	0.568E-02	-0.119E-02
	20000.	0.121E-01	0.717E-03	0.581E-02	-0.171E-02	0.588E-02	-0.136E-02
	30000.	0.116E-01	0.707E-03	0.594E-02	-0.185E-02	0.594E-02	-0.150E-02
	50000.	0.112E-01	0.755E-03	0.608E-02	-0.207E-02	0.610E-02	-0.160E-02
	100000.	0.106E-01	0.719E-03	0.639E-02	-0.227E-02	0.624E-02	-0.178E-02
In II 8D-9P C=0.17E+19	5000.	5.11	-1.87	0.733	-0.321	0.762	-0.263
	10000.	4.87	-1.60	0.823	-0.382	0.817	-0.313
	20000.	4.91	-1.37	0.894	-0.448	0.845	-0.353
	30000.	5.01	-1.20	0.922	-0.482	0.875	-0.383
	50000.	5.07	-1.03	0.958	-0.524	0.905	-0.430
	100000.	4.91	-0.789	0.993	-0.584	0.957	-0.476
In II 5D-9F 2252.3 Å C=0.68E+14	5000.	0.375E-02	0.249E-02	0.684E-03	0.562E-03	0.585E-03	0.458E-03
	10000.	0.336E-02	0.218E-02	0.801E-03	0.662E-03	0.654E-03	0.515E-03
	20000.	0.337E-02	0.182E-02	0.852E-03	0.711E-03	0.730E-03	0.573E-03
	30000.	0.338E-02	0.166E-02	0.968E-03	0.826E-03	0.767E-03	0.618E-03
	50000.	0.328E-02	0.137E-02	0.955E-03	0.836E-03	0.916E-03	0.668E-03
	100000.	0.308E-02	0.104E-02	0.128E-02	0.107E-02	0.934E-03	0.705E-03
In II 6D-9F 4582.3 Å C=0.28E+15	5000.	0.155E-01	0.104E-01	0.284E-02	0.233E-02	0.243E-02	0.190E-02
	10000.	0.142E-01	0.905E-02	0.333E-02	0.274E-02	0.271E-02	0.213E-02
	20000.	0.142E-01	0.756E-02	0.352E-02	0.295E-02	0.303E-02	0.238E-02
	30000.	0.143E-01	0.692E-02	0.403E-02	0.343E-02	0.317E-02	0.256E-02
	50000.	0.139E-01	0.571E-02	0.396E-02	0.347E-02	0.379E-02	0.277E-02
	100000.	0.130E-01	0.434E-02	0.530E-02	0.441E-02	0.386E-02	0.292E-02
In II 7D-9F 8428.5 Å C=0.95E+15	5000.	0.534E-01	0.352E-01	0.963E-02	0.789E-02	0.827E-02	0.644E-02
	10000.	0.494E-01	0.308E-01	0.113E-01	0.929E-02	0.922E-02	0.724E-02
	20000.	0.495E-01	0.257E-01	0.119E-01	0.998E-02	0.103E-01	0.804E-02
	30000.	0.498E-01	0.235E-01	0.138E-01	0.116E-01	0.107E-01	0.870E-02
	50000.	0.485E-01	0.194E-01	0.135E-01	0.118E-01	0.128E-01	0.938E-02
	100000.	0.455E-01	0.148E-01	0.180E-01	0.149E-01	0.130E-01	0.987E-02
In II 8D-9F 15577.1 Å C=0.32E+16	5000.	0.187	0.120	0.331E-01	0.269E-01	0.285E-01	0.220E-01
	10000.	0.175	0.105	0.388E-01	0.317E-01	0.317E-01	0.246E-01
	20000.	0.177	0.877E-01	0.409E-01	0.340E-01	0.354E-01	0.275E-01
	30000.	0.179	0.805E-01	0.469E-01	0.397E-01	0.368E-01	0.296E-01
	50000.	0.175	0.664E-01	0.460E-01	0.401E-01	0.440E-01	0.320E-01
	100000.	0.166	0.505E-01	0.616E-01	0.510E-01	0.448E-01	0.338E-01
In II 9D-9F 30218.8 Å C=0.12E+17	5000.	0.679	0.461	0.127	0.102	0.112	0.841E-01
	10000.	0.624	0.406	0.150	0.120	0.125	0.952E-01
	20000.	0.617	0.339	0.154	0.132	0.135	0.104
	30000.	0.622	0.311	0.185	0.151	0.142	0.114
	50000.	0.601	0.257	0.177	0.156	0.168	0.122
	100000.	0.562	0.196	0.240	0.194	0.169	0.131
In II 6F-8D C=0.89E+18	5000.	4.91	-2.20	0.573	-0.410	0.555	-0.334
	10000.	4.62	-1.86	0.673	-0.485	0.626	-0.396
	20000.	4.61	-1.59	0.782	-0.567	0.687	-0.453
	30000.	4.67	-1.40	0.841	-0.614	0.720	-0.481
	50000.	4.69	-1.18	0.878	-0.664	0.775	-0.540
	100000.	4.48	-0.899	1.04	-0.759	0.856	-0.602

PERTURBERS ARE: TRANSITION	T(K)	ELECTRONS		PROTONS		IONIZED HELIUM	
		WIDTH (Å)	SHIFT (Å)	WIDTH (Å)	SHIFT (Å)	WIDTH (Å)	SHIFT (Å)
In II 7F-8D 36537.7 Å C=0.33E+17	5000.	0.430	-0.233	0.593E-01	-0.480E-01	0.535E-01	-0.388E-01
	10000.	0.399	-0.200	0.684E-01	-0.553E-01	0.619E-01	-0.448E-01
	20000.	0.401	-0.173	0.821E-01	-0.635E-01	0.677E-01	-0.504E-01
	30000.	0.404	-0.153	0.864E-01	-0.688E-01	0.678E-01	-0.544E-01
	50000.	0.401	-0.127	0.922E-01	-0.723E-01	0.805E-01	-0.594E-01
	100000.	0.381	-0.960E-01	0.972E-01	-0.849E-01	0.892E-01	-0.652E-01
In II 7F-9D C=0.18E+19	5000.	21.6	-12.9	3.72	-2.78	3.47	-2.26
	10000.	18.7	-11.7	4.33	-3.25	3.78	-2.57
	20000.	17.9	-9.66	4.80	-3.63	4.09	-2.95
	30000.	17.7	-8.92	5.06	-3.89	4.39	-3.24
	50000.	17.1	-7.46	5.32	-4.17	4.73	-3.36
	100000.	15.9	-5.61	6.08	-5.16	5.22	-3.73
In II 8F-9D 55148.1 Å C=0.55E+17	5000.	1.46	-0.893	0.262	-0.209	0.234	-0.167
	10000.	1.31	-0.842	0.299	-0.243	0.258	-0.194
	20000.	1.27	-0.698	0.346	-0.273	0.285	-0.212
	30000.	1.27	-0.646	0.373	-0.297	0.304	-0.244
	50000.	1.23	-0.535	0.389	-0.311	0.312	-0.246
	100000.	1.15	-0.406	0.434	-0.349	0.369	-0.309
PERTURBER DENSITY = 1.E+14 cm ⁻³ SINGLETs							
In II 6S-6P 7843.1 Å C=0.25E+18	5000.	0.849E-02	0.134E-02	0.419E-03	0.193E-03	0.520E-03	0.177E-03
	10000.	0.678E-02	0.982E-03	0.610E-03	0.283E-03	0.683E-03	0.247E-03
	20000.	0.572E-02	0.608E-03	0.748E-03	0.378E-03	0.783E-03	0.308E-03
	30000.	0.530E-02	0.616E-03	0.818E-03	0.421E-03	0.841E-03	0.343E-03
	50000.	0.498E-02	0.485E-03	0.902E-03	0.479E-03	0.906E-03	0.391E-03
	100000.	0.456E-02	0.358E-03	0.998E-03	0.563E-03	0.958E-03	0.454E-03
In II 6S-9P 2282.3 Å C=0.23E+16	5000.	0.784E-02	-0.431E-02	0.115E-02	-0.781E-03	0.112E-02	-0.637E-03
	10000.	0.679E-02	-0.365E-02	0.135E-02	-0.933E-03	0.127E-02	-0.756E-03
	20000.	0.623E-02	-0.317E-02	0.151E-02	-0.107E-02	0.136E-02	-0.854E-03
	30000.	0.612E-02	-0.282E-02	0.161E-02	-0.116E-02	0.148E-02	-0.941E-03
	50000.	0.594E-02	-0.238E-02	0.177E-02	-0.127E-02	0.150E-02	-0.103E-02
	100000.	0.555E-02	-0.184E-02	0.198E-02	-0.144E-02	0.164E-02	-0.115E-02
In II 7S-9P 5723.4 Å C=0.14E+17	5000.	0.516E-01	-0.287E-01	0.728E-02	-0.498E-02	0.708E-02	-0.406E-02
	10000.	0.448E-01	-0.248E-01	0.853E-02	-0.594E-02	0.795E-02	-0.478E-02
	20000.	0.414E-01	-0.217E-01	0.960E-02	-0.685E-02	0.867E-02	-0.545E-02
	30000.	0.407E-01	-0.195E-01	0.102E-01	-0.738E-02	0.931E-02	-0.595E-02
	50000.	0.396E-01	-0.166E-01	0.111E-01	-0.802E-02	0.949E-02	-0.654E-02
	100000.	0.370E-01	-0.128E-01	0.126E-01	-0.924E-02	0.104E-01	-0.736E-02
In II 8S-9P 13715.5 Å C=0.82E+17	5000.	0.317	-0.168	0.426E-01	-0.295E-01	0.413E-01	-0.240E-01
	10000.	0.279	-0.155	0.506E-01	-0.355E-01	0.461E-01	-0.281E-01
	20000.	0.258	-0.134	0.563E-01	-0.407E-01	0.503E-01	-0.323E-01
	30000.	0.253	-0.121	0.589E-01	-0.436E-01	0.541E-01	-0.348E-01
	50000.	0.246	-0.107	0.643E-01	-0.473E-01	0.559E-01	-0.390E-01
	100000.	0.229	-0.829E-01	0.738E-01	-0.543E-01	0.612E-01	-0.435E-01
In II 9S-9P 68605.9 Å C=0.21E+19	5000.	9.28	-4.36	1.12	-0.822	1.07	-0.667
	10000.	8.26	-4.25	1.32	-0.976	1.21	-0.785
	20000.	7.68	-4.03	1.51	-1.11	1.32	-0.894
	30000.	7.50	-3.66	1.66	-1.22	1.40	-0.961
	50000.	7.25	-3.18	1.72	-1.33	1.54	-1.08
	100000.	6.79	-2.60	1.98	-1.49	1.69	-1.20
In II 5P-5D 1966.7 Å C=0.16E+17	5000.	0.476E-03	-0.282E-05	0.254E-04	-0.647E-05	0.320E-04	-0.598E-05
	10000.	0.366E-03	-0.788E-05	0.366E-04	-0.103E-04	0.417E-04	-0.879E-05
	20000.	0.295E-03	-0.911E-05	0.441E-04	-0.142E-04	0.473E-04	-0.118E-04
	30000.	0.266E-03	-0.116E-04	0.477E-04	-0.159E-04	0.506E-04	-0.131E-04
	50000.	0.240E-03	-0.766E-05	0.521E-04	-0.183E-04	0.539E-04	-0.149E-04
	100000.	0.212E-03	-0.766E-05	0.566E-04	-0.217E-04	0.564E-04	-0.177E-04
In II 5P-6D 1571.5 Å C=0.22E+16	5000.	0.662E-03	0.522E-04	0.571E-04	0.392E-04	0.638E-04	0.339E-04
	10000.	0.580E-03	0.662E-04	0.742E-04	0.506E-04	0.748E-04	0.417E-04
	20000.	0.532E-03	0.557E-04	0.894E-04	0.609E-04	0.868E-04	0.496E-04
	30000.	0.508E-03	0.528E-04	0.977E-04	0.674E-04	0.921E-04	0.546E-04
	50000.	0.480E-03	0.518E-04	0.108E-03	0.757E-04	0.997E-04	0.610E-04
	100000.	0.437E-03	0.407E-04	0.122E-03	0.868E-04	0.110E-03	0.708E-04

PERTURBERS ARE: TRANSITION	T(K)	ELECTRONS		PROTONS		IONIZED HELIUM	
		WIDTH (Å)	SHIFT (Å)	WIDTH (Å)	SHIFT (Å)	WIDTH (Å)	SHIFT (Å)
In II 5P-7D 1381.9 Å C=0.13E+16	5000.	0.925E-03	0.591E-04	0.116E-03	0.549E-04	0.123E-03	0.457E-04
	10000.	0.851E-03	0.777E-04	0.135E-03	0.672E-04	0.139E-03	0.548E-04
	20000.	0.839E-03	0.583E-04	0.154E-03	0.800E-04	0.151E-03	0.655E-04
	30000.	0.839E-03	0.557E-04	0.163E-03	0.886E-04	0.155E-03	0.712E-04
	50000.	0.832E-03	0.528E-04	0.173E-03	0.971E-04	0.163E-03	0.775E-04
	100000.	0.794E-03	0.349E-04	0.191E-03	0.112E-03	0.172E-03	0.884E-04
In II 5P-8D 1292.5 Å C=0.73E+15	5000.	0.150E-02	0.118E-03	0.228E-03	0.101E-03	0.239E-03	0.829E-04
	10000.	0.148E-02	0.749E-04	0.259E-03	0.121E-03	0.265E-03	0.987E-04
	20000.	0.151E-02	0.737E-04	0.284E-03	0.144E-03	0.277E-03	0.115E-03
	30000.	0.154E-02	0.747E-04	0.297E-03	0.155E-03	0.289E-03	0.126E-03
	50000.	0.157E-02	0.548E-04	0.311E-03	0.172E-03	0.298E-03	0.140E-03
	100000.	0.151E-02	0.342E-04	0.340E-03	0.193E-03	0.308E-03	0.153E-03
In II 5P-9D 1243.1 Å C=0.43E+15	5000.	0.247E-02	0.173E-03	0.422E-03	0.190E-03	0.436E-03	0.156E-03
	10000.	0.254E-02	0.949E-04	0.476E-03	0.228E-03	0.463E-03	0.185E-03
	20000.	0.269E-02	0.874E-04	0.507E-03	0.263E-03	0.493E-03	0.213E-03
	30000.	0.278E-02	0.907E-04	0.529E-03	0.282E-03	0.498E-03	0.225E-03
	50000.	0.284E-02	0.503E-04	0.554E-03	0.312E-03	0.519E-03	0.254E-03
	100000.	0.275E-02	0.339E-04	0.567E-03	0.349E-03	0.531E-03	0.281E-03
In II 6P-6D 5920.4 Å C=0.32E+17	5000.	0.118E-01	-0.263E-03	0.892E-03	0.475E-03	0.100E-02	0.413E-03
	10000.	0.102E-01	0.360E-04	0.112E-02	0.631E-03	0.116E-02	0.516E-03
	20000.	0.939E-02	0.680E-04	0.131E-02	0.758E-03	0.131E-02	0.617E-03
	30000.	0.903E-02	0.446E-04	0.144E-02	0.842E-03	0.138E-02	0.678E-03
	50000.	0.857E-02	0.920E-04	0.154E-02	0.936E-03	0.145E-02	0.754E-03
	100000.	0.785E-02	0.774E-04	0.170E-02	0.107E-02	0.153E-02	0.855E-03
In II 6P-7D 3903.2 Å C=0.11E+17	5000.	0.827E-02	-0.335E-04	0.953E-03	0.411E-03	0.101E-02	0.344E-03
	10000.	0.757E-02	0.773E-04	0.110E-02	0.506E-03	0.114E-02	0.411E-03
	20000.	0.745E-02	0.559E-04	0.125E-02	0.602E-03	0.124E-02	0.491E-03
	30000.	0.744E-02	0.575E-04	0.131E-02	0.660E-03	0.128E-02	0.538E-03
	50000.	0.736E-02	0.104E-03	0.140E-02	0.739E-03	0.131E-02	0.588E-03
	100000.	0.702E-02	0.333E-04	0.153E-02	0.854E-03	0.137E-02	0.665E-03
In II 6P-8D 3265.0 Å C=0.47E+16	5000.	0.100E-01	0.371E-03	0.147E-02	0.629E-03	0.154E-02	0.518E-03
	10000.	0.991E-02	0.201E-03	0.168E-02	0.759E-03	0.171E-02	0.619E-03
	20000.	0.102E-01	0.111E-03	0.184E-02	0.902E-03	0.178E-02	0.727E-03
	30000.	0.103E-01	0.164E-03	0.191E-02	0.972E-03	0.187E-02	0.776E-03
	50000.	0.105E-01	0.110E-03	0.201E-02	0.108E-02	0.192E-02	0.886E-03
	100000.	0.101E-01	0.298E-04	0.219E-02	0.123E-02	0.198E-02	0.955E-03
In II 6P-9D 2967.0 Å C=0.25E+16	5000.	0.144E-01	0.675E-03	0.241E-02	0.107E-02	*0.249E-02	*0.878E-03
	10000.	0.148E-01	0.443E-03	0.273E-02	0.129E-02	0.266E-02	0.104E-02
	20000.	0.157E-01	0.241E-03	0.289E-02	0.149E-02	0.283E-02	0.120E-02
	30000.	0.162E-01	0.271E-03	0.302E-02	0.159E-02	0.285E-02	0.127E-02
	50000.	0.166E-01	0.798E-04	0.315E-02	0.176E-02	0.297E-02	0.144E-02
	100000.	0.160E-01	0.435E-04	0.321E-02	0.197E-02	0.307E-02	0.157E-02
In II 7P-9D 6285.1 Å C=0.11E+17	5000.	0.704E-01	0.939E-02	0.113E-01	0.532E-02	*0.116E-01	*0.434E-02
	10000.	0.720E-01	0.721E-02	0.126E-01	0.631E-02	0.125E-01	0.512E-02
	20000.	0.763E-01	0.658E-02	0.137E-01	0.734E-02	0.131E-01	0.597E-02
	30000.	0.788E-01	0.607E-02	0.141E-01	0.794E-02	0.135E-01	0.638E-02
	50000.	0.803E-01	0.452E-02	0.152E-01	0.880E-02	0.134E-01	0.685E-02
	100000.	0.777E-01	0.351E-02	0.168E-01	0.103E-01	0.142E-01	0.780E-02
In II 8P-8D 23193.8 Å C=0.23E+18	5000.	0.739	0.250	0.101	0.548E-01	0.103	0.446E-01
	10000.	0.710	0.205	0.117	0.655E-01	0.113	0.531E-01
	20000.	0.721	0.166	0.127	0.756E-01	0.122	0.620E-01
	30000.	0.737	0.149	0.137	0.840E-01	0.128	0.678E-01
	50000.	0.743	0.127	0.147	0.911E-01	0.130	0.722E-01
	100000.	0.715	0.961E-01	0.157	0.995E-01	0.141	0.822E-01
In II 8P-9D 13537.3 Å C=0.51E+17	5000.	0.356	0.847E-01	0.574E-01	0.286E-01	*0.585E-01	*0.233E-01
	10000.	0.366	0.681E-01	0.648E-01	0.344E-01	0.623E-01	0.272E-01
	20000.	0.391	0.584E-01	0.696E-01	0.394E-01	0.662E-01	0.312E-01
	30000.	0.405	0.530E-01	0.721E-01	0.423E-01	0.679E-01	0.338E-01
	50000.	0.413	0.426E-01	0.763E-01	0.459E-01	0.714E-01	0.377E-01
	100000.	0.401	0.329E-01	0.848E-01	0.526E-01	0.752E-01	0.421E-01

PERTURBERS ARE: TRANSITION	T(K)	ELECTRONS		PROTONS		IONIZED HELIUM	
		WIDTH (Å)	SHIFT (Å)	WIDTH (Å)	SHIFT (Å)	WIDTH (Å)	SHIFT (Å)
In II 9P-9D 37893.6 Å C=0.40E+18	5000.	3.69	1.42	0.569	0.320	*0.564	*0.261
	10000.	3.64	1.15	0.639	0.379	*0.608	*0.301
	20000.	3.82	0.936	0.708	0.433	0.645	0.345
	30000.	3.94	0.843	0.731	0.475	0.673	0.375
	50000.	3.99	0.687	0.761	0.500	0.682	0.397
	100000.	3.86	0.523	0.830	0.567	0.716	0.466
In II 5D-9P 3709.2 Å C=0.60E+16	5000.	0.210E-01	-0.113E-01	0.305E-02	-0.206E-02	0.300E-02	-0.167E-02
	10000.	0.182E-01	-0.946E-02	0.358E-02	-0.245E-02	0.337E-02	-0.199E-02
	20000.	0.168E-01	-0.817E-02	0.401E-02	-0.282E-02	0.361E-02	-0.225E-02
	30000.	0.165E-01	-0.726E-02	0.428E-02	-0.305E-02	0.391E-02	-0.248E-02
	50000.	0.160E-01	-0.611E-02	0.470E-02	-0.335E-02	0.397E-02	-0.270E-02
	100000.	0.150E-01	-0.470E-02	0.526E-02	-0.380E-02	0.436E-02	-0.305E-02
In II 6D-7P C=0.11E+20	5000.	7.10	-2.63	0.641	-0.476	0.641	-0.387
	10000.	6.24	-2.19	0.783	-0.573	0.750	-0.466
	20000.	5.69	-1.76	0.935	-0.682	0.854	-0.550
	30000.	5.44	-1.54	1.01	-0.748	0.913	-0.596
	50000.	5.20	-1.33	1.08	-0.815	0.962	-0.654
	100000.	4.75	-1.05	1.27	-0.954	1.09	-0.742
In II 6D-9P 7055.2 Å C=0.22E+17	5000.	0.832E-01	-0.430E-01	0.114E-01	-0.771E-02	0.112E-01	-0.627E-02
	10000.	0.727E-01	-0.361E-01	0.135E-01	-0.923E-02	0.124E-01	-0.735E-02
	20000.	0.674E-01	-0.315E-01	0.150E-01	-0.106E-01	0.134E-01	-0.839E-02
	30000.	0.661E-01	-0.279E-01	0.157E-01	-0.113E-01	0.146E-01	-0.917E-02
	50000.	0.641E-01	-0.235E-01	0.172E-01	-0.124E-01	0.149E-01	-0.101E-01
	100000.	0.597E-01	-0.180E-01	0.196E-01	-0.142E-01	0.164E-01	-0.114E-01
In II 7D-8P C=0.14E+20	5000.	22.1	-9.26	2.64	-1.62	2.67	-1.33
	10000.	20.1	-7.87	3.10	-1.95	3.03	-1.59
	20000.	19.1	-6.34	3.50	-2.29	3.28	-1.83
	30000.	19.0	-5.54	3.73	-2.48	3.40	-1.99
	50000.	18.8	-4.79	3.98	-2.69	3.63	-2.22
	100000.	17.8	-3.68	4.53	-3.17	3.70	-2.52
In II 7D-9P 18367.2 Å C=0.15E+18	5000.	0.606	-0.293	0.826E-01	-0.540E-01	0.813E-01	-0.442E-01
	10000.	0.544	-0.247	0.968E-01	-0.645E-01	0.889E-01	-0.514E-01
	20000.	0.515	-0.215	0.107	-0.744E-01	0.976E-01	-0.596E-01
	30000.	0.512	-0.190	0.113	-0.808E-01	0.101	-0.628E-01
	50000.	0.503	-0.160	0.122	-0.879E-01	0.108	-0.716E-01
	100000.	0.474	-0.122	0.137	-0.993E-01	0.117	-0.803E-01
In II 5D-5F 4975.2 Å C=0.13E+17	5000.	0.172E-01	0.938E-02	0.181E-02	0.162E-02	0.170E-02	0.133E-02
	10000.	0.149E-01	0.761E-02	0.228E-02	0.196E-02	0.208E-02	0.160E-02
	20000.	0.136E-01	0.612E-02	0.273E-02	0.232E-02	0.236E-02	0.185E-02
	30000.	0.132E-01	0.536E-02	0.300E-02	0.250E-02	0.265E-02	0.203E-02
	50000.	0.127E-01	0.453E-02	0.333E-02	0.281E-02	0.282E-02	0.216E-02
	100000.	0.117E-01	0.349E-02	0.385E-02	0.305E-02	0.312E-02	0.243E-02
In II 5D-7F 3439.4 Å C=0.27E+16	5000.	0.309E-01	0.192E-01	0.472E-02	0.407E-02	*0.427E-02	*0.328E-02
	10000.	0.277E-01	0.165E-01	0.568E-02	0.469E-02	*0.494E-02	*0.384E-02
	20000.	0.265E-01	0.142E-01	0.673E-02	0.550E-02	0.556E-02	0.435E-02
	30000.	0.261E-01	0.125E-01	0.729E-02	0.584E-02	0.573E-02	0.451E-02
	50000.	0.255E-01	0.104E-01	0.791E-02	0.620E-02	0.648E-02	0.512E-02
	100000.	0.237E-01	0.785E-02	0.810E-02	0.715E-02	0.757E-02	0.561E-02
In II 5D-8F 3199.0 Å C=0.16E+16	5000.	0.467E-01	0.295E-01	*0.795E-02	*0.669E-02	*0.700E-02	*0.538E-02
	10000.	0.418E-01	0.257E-01	*0.899E-02	*0.764E-02	*0.775E-02	*0.610E-02
	20000.	0.411E-01	0.214E-01	0.108E-01	0.895E-02	*0.899E-02	*0.694E-02
	30000.	0.407E-01	0.196E-01	0.116E-01	0.964E-02	*0.877E-02	*0.784E-02
	50000.	0.394E-01	0.162E-01	0.125E-01	0.101E-01	*0.101E-01	*0.787E-02
	100000.	0.368E-01	0.123E-01	0.138E-01	0.110E-01	0.117E-01	0.101E-01
In II 5D-9F 3053.1 Å C=0.11E+16	5000.	0.692E-01	0.446E-01	*0.127E-01	*0.104E-01		
	10000.	0.628E-01	0.386E-01	*0.152E-01	*0.123E-01		
	20000.	0.624E-01	0.325E-01	*0.156E-01	*0.137E-01	*0.136E-01	*0.107E-01
	30000.	0.621E-01	0.297E-01	*0.190E-01	*0.154E-01	*0.143E-01	*0.118E-01
	50000.	0.601E-01	0.244E-01	*0.180E-01	*0.161E-01	*0.170E-01	*0.125E-01
	100000.	0.561E-01	0.185E-01	*0.247E-01	*0.198E-01	*0.173E-01	*0.137E-01

STARK BROADENING PARAMETER TABLES FOR In II

PERTURBERS ARE: TRANSITION	T(K)	ELECTRONS		PROTONS		IONIZED HELIUM	
		WIDTH (Å)	SHIFT (Å)	WIDTH (Å)	SHIFT (Å)	WIDTH (Å)	SHIFT (Å)
In II 6D-7F 6139.2 Å C=0.86E+16	5000.	0.100	0.596E-01	0.150E-01	0.128E-01	*0.137E-01	*0.104E-01
	10000.	0.909E-01	0.512E-01	0.181E-01	0.148E-01	*0.156E-01	*0.121E-01
	20000.	0.877E-01	0.437E-01	0.214E-01	0.174E-01	0.174E-01	0.136E-01
	30000.	0.870E-01	0.384E-01	0.231E-01	0.186E-01	0.186E-01	0.144E-01
	50000.	0.850E-01	0.321E-01	0.255E-01	0.197E-01	0.208E-01	0.162E-01
	100000.	0.795E-01	0.242E-01	0.256E-01	0.222E-01	0.241E-01	0.176E-01
In II 6D-8F 5413.2 Å C=0.47E+16	5000.	0.134	0.834E-01	*0.227E-01	*0.191E-01	*0.200E-01	*0.153E-01
	10000.	0.122	0.724E-01	*0.257E-01	*0.218E-01	*0.222E-01	*0.174E-01
	20000.	0.120	0.603E-01	0.307E-01	0.256E-01	*0.257E-01	*0.198E-01
	30000.	0.119	0.551E-01	0.333E-01	0.276E-01	*0.249E-01	*0.223E-01
	50000.	0.116	0.455E-01	0.359E-01	0.290E-01	*0.290E-01	*0.225E-01
	100000.	0.108	0.345E-01	0.394E-01	0.312E-01	0.335E-01	0.288E-01
In II 6D-9F 5008.2 Å C=0.29E+16	5000.	0.187	0.119	*0.340E-01	*0.280E-01		
	10000.	0.171	0.103	*0.407E-01	*0.330E-01		
	20000.	0.170	0.865E-01	*0.419E-01	*0.368E-01	*0.365E-01	*0.287E-01
	30000.	0.170	0.791E-01	*0.509E-01	*0.416E-01	*0.383E-01	*0.316E-01
	50000.	0.164	0.650E-01	*0.485E-01	*0.432E-01	*0.458E-01	*0.338E-01
	100000.	0.153	0.493E-01	*0.664E-01	*0.533E-01	*0.461E-01	*0.365E-01
In II 7D-7F 13228.8 Å C=0.40E+17	5000.	0.485	0.276	0.703E-01	0.587E-01	*0.645E-01	*0.477E-01
	10000.	0.448	0.237	0.848E-01	0.681E-01	*0.727E-01	*0.553E-01
	20000.	0.438	0.202	0.983E-01	0.803E-01	0.810E-01	0.621E-01
	30000.	0.438	0.178	0.107	0.855E-01	0.876E-01	0.665E-01
	50000.	0.431	0.148	0.118	0.915E-01	0.960E-01	0.744E-01
	100000.	0.406	0.112	0.119	0.101	0.114	0.818E-01
In II 7D-8F 10262.7 Å C=0.17E+17	5000.	0.492	0.298	*0.818E-01	*0.681E-01	*0.722E-01	*0.549E-01
	10000.	0.452	0.260	*0.928E-01	*0.777E-01	*0.803E-01	*0.622E-01
	20000.	0.451	0.217	0.110	0.915E-01	*0.936E-01	*0.711E-01
	30000.	0.448	0.198	0.119	0.990E-01	*0.887E-01	*0.790E-01
	50000.	0.438	0.163	0.128	0.104	*0.105	*0.808E-01
	100000.	0.411	0.124	0.143	0.111	0.120	0.104
In II 7D-9F 8898.5 Å C=0.91E+16	5000.	0.599	0.376	*0.108	*0.882E-01		
	10000.	0.549	0.324	*0.128	*0.104		
	20000.	0.551	0.273	*0.132	*0.116	*0.115	*0.904E-01
	30000.	0.549	0.249	*0.160	*0.132	*0.121	*0.993E-01
	50000.	0.534	0.205	*0.152	*0.136	*0.144	*0.107
	100000.	0.500	0.155	*0.209	*0.169	*0.145	*0.115
In II 8D-8F 21114.8 Å C=0.71E+17	5000.	2.21	1.25	*0.349	*0.283	*0.310	*0.230
	10000.	2.07	1.09	*0.398	*0.323	*0.347	*0.261
	20000.	2.08	0.917	0.461	0.382	*0.395	*0.299
	30000.	2.09	0.832	0.496	0.416	*0.376	*0.326
	50000.	2.05	0.688	0.539	0.432	*0.454	*0.338
	100000.	1.94	0.524	0.622	0.474	0.494	0.438
In II 8D-9F 16051.6 Å C=0.30E+17	5000.	2.01	1.22	*0.353	*0.286		
	10000.	1.87	1.05	*0.417	*0.336		
	20000.	1.89	0.886	*0.430	*0.369	*0.377	*0.293
	30000.	1.89	0.810	*0.511	*0.424	*0.398	*0.321
	50000.	1.85	0.665	*0.491	*0.436	*0.465	*0.343
	100000.	1.74	0.506	*0.664	*0.544	*0.473	*0.368
In II 9D-9F 31701.9 Å C=0.12E+18	5000.	8.22	4.70	*1.39	*1.10		
	10000.	7.94	4.07	*1.61	*1.29		
	20000.	8.11	3.45	*1.72	*1.40	*1.48	*1.13
	30000.	8.15	3.13	*1.95	*1.63	*1.57	*1.22
	50000.	8.05	2.59	*1.92	*1.64	*1.86	*1.33
	100000.	7.60	1.97	*2.55	*2.12	*1.91	*1.41
In II 4F-7D 8545.9 Å C=0.51E+17	5000.	0.410E-01	0.171E-02	0.471E-02	0.199E-02	0.502E-02	0.166E-02
	10000.	0.371E-01	0.239E-02	0.544E-02	0.244E-02	0.565E-02	0.199E-02
	20000.	0.361E-01	0.159E-02	0.615E-02	0.291E-02	0.610E-02	0.237E-02
	30000.	0.358E-01	0.146E-02	0.647E-02	0.320E-02	0.632E-02	0.260E-02
	50000.	0.352E-01	0.144E-02	0.685E-02	0.357E-02	0.643E-02	0.285E-02
	100000.	0.334E-01	0.810E-03	0.751E-02	0.415E-02	0.679E-02	0.319E-02

PERTURBERS ARE: TRANSITION	T(K)	ELECTRONS		PROTONS		IONIZED HELIUM	
		WIDTH (Å)	SHIFT (Å)	WIDTH (Å)	SHIFT (Å)	WIDTH (Å)	SHIFT (Å)
In II 4F-8D 5984.6 Å C=0.16E+17	5000.	0.346E-01	0.185E-02	0.499E-02	0.212E-02	0.524E-02	0.174E-02
	10000.	0.338E-01	0.103E-02	0.568E-02	0.256E-02	0.580E-02	0.208E-02
	20000.	0.343E-01	0.878E-03	0.622E-02	0.304E-02	0.604E-02	0.245E-02
	30000.	0.348E-01	0.103E-02	0.646E-02	0.327E-02	0.634E-02	0.262E-02
	50000.	0.352E-01	0.822E-03	0.677E-02	0.364E-02	0.648E-02	0.298E-02
	100000.	0.339E-01	0.418E-03	0.738E-02	0.413E-02	0.668E-02	0.321E-02
In II 4F-9D 5054.3 Å C=0.71E+16	5000.	0.425E-01	0.228E-02	0.704E-02	0.312E-02	*0.727E-02	*0.255E-02
	10000.	0.433E-01	0.154E-02	0.793E-02	0.374E-02	0.773E-02	0.303E-02
	20000.	0.457E-01	0.103E-02	0.841E-02	0.433E-02	0.823E-02	0.348E-02
	30000.	0.471E-01	0.110E-02	0.879E-02	0.463E-02	0.830E-02	0.369E-02
	50000.	0.480E-01	0.519E-03	0.918E-02	0.511E-02	0.865E-02	0.419E-02
	100000.	0.465E-01	0.357E-03	0.937E-02	0.572E-02	0.893E-02	0.457E-02
In II 5F-7D 70631.9 Å C=0.26E+19	5000.	4.85	-1.60	0.437	-0.250	0.453	-0.204
	10000.	4.44	-1.26	0.514	-0.299	0.514	-0.244
	20000.	4.36	-1.02	0.586	-0.354	0.557	-0.289
	30000.	4.34	-0.909	0.618	-0.382	0.590	-0.314
	50000.	4.27	-0.760	0.662	-0.422	0.596	-0.336
	100000.	4.04	-0.597	0.735	-0.485	0.668	-0.396
In II 5F-9D 10527.1 Å C=0.31E+17	5000.	0.229	-0.147E-01	0.302E-01	0.948E-02	*0.319E-01	*0.774E-02
	10000.	0.232	-0.193E-01	0.334E-01	0.113E-01	0.337E-01	0.919E-02
	20000.	0.241	-0.182E-01	0.357E-01	0.133E-01	0.353E-01	0.107E-01
	30000.	0.246	-0.171E-01	0.359E-01	0.142E-01	0.358E-01	0.115E-01
	50000.	0.250	-0.165E-01	0.380E-01	0.157E-01	0.366E-01	0.127E-01
	100000.	0.240	-0.131E-01	0.405E-01	0.182E-01	0.369E-01	0.149E-01
In II 6F-7D 23891.4 Å C=0.19E+18	5000.	0.914	-0.468	0.108	-0.864E-01	0.102	-0.705E-01
	10000.	0.840	-0.382	0.131	-0.103	0.120	-0.832E-01
	20000.	0.823	-0.312	0.151	-0.119	0.131	-0.946E-01
	30000.	0.825	-0.277	0.164	-0.128	0.146	-0.104
	50000.	0.815	-0.231	0.181	-0.139	0.147	-0.114
	100000.	0.769	-0.177	0.208	-0.160	0.165	-0.127
In II 6F-8D C=0.50E+19	5000.	29.0	-11.0	3.18	-1.96	3.19	-1.59
	10000.	27.9	-9.20	3.70	-2.33	3.50	-1.89
	20000.	28.1	-7.92	4.09	-2.70	3.87	-2.20
	30000.	28.3	-7.01	4.41	-2.95	3.93	-2.34
	50000.	28.3	-5.90	4.82	-3.27	4.14	-2.54
	100000.	26.9	-4.58	5.24	-3.83	4.49	-2.90
In II 6F-9D 25655.0 Å C=0.18E+18	5000.	1.73	-0.386	0.196	-0.476E-01	*0.207	-0.390E-01
	10000.	1.74	-0.367	0.214	-0.573E-01	0.218	-0.467E-01
	20000.	1.79	-0.322	0.225	-0.673E-01	0.225	-0.544E-01
	30000.	1.83	-0.299	0.231	-0.726E-01	0.227	-0.583E-01
	50000.	1.85	-0.261	0.232	-0.797E-01	0.230	-0.635E-01
	100000.	1.76	-0.203	0.254	-0.917E-01	0.244	-0.705E-01
In II 7F-8D 39195.6 Å C=0.35E+18	5000.	4.74	-2.39	0.641	-0.497	*0.594	-0.405
	10000.	4.48	-2.06	0.760	-0.584	*0.661	-0.468
	20000.	4.51	-1.76	0.833	-0.668	0.743	-0.524
	30000.	4.53	-1.55	0.932	-0.732	0.786	-0.565
	50000.	4.50	-1.29	1.03	-0.770	0.857	-0.628
	100000.	4.26	-0.986	1.08	-0.849	1.00	-0.710
In II 8F-9D 60222.1 Å C=0.58E+18	5000.	19.7	-9.47	*2.93	-2.23	*2.58	-1.78
	10000.	19.2	-8.77	*3.33	-2.54	*2.93	-2.06
	20000.	19.7	-7.34	3.62	-2.91	*3.29	-2.36
	30000.	19.9	-6.55	3.90	-3.18	*3.14	-2.45
	50000.	19.8	-5.57	4.48	-3.34	*3.71	-2.71
	100000.	18.7	-4.25	4.94	-3.67	3.76	-3.34
TRIPLETS							
In II 6S-9P 2134.0 Å C=0.27E+16	5000.	0.585E-02	-0.309E-02	0.900E-03	-0.516E-03	0.908E-03	-0.422E-03
	10000.	0.502E-02	-0.265E-02	0.104E-02	-0.618E-03	0.100E-02	-0.505E-03
	20000.	0.458E-02	-0.233E-02	0.116E-02	-0.727E-03	0.106E-02	-0.575E-03
	30000.	0.447E-02	-0.205E-02	0.120E-02	-0.764E-03	0.111E-02	-0.615E-03
	50000.	0.437E-02	-0.177E-02	0.128E-02	-0.848E-03	0.116E-02	-0.679E-03
	100000.	0.411E-02	-0.137E-02	0.134E-02	-0.934E-03	0.124E-02	-0.750E-03

STARK BROADENING PARAMETER TABLES FOR In II

PERTURBERS ARE: TRANSITION	T(K)	ELECTRONS		PROTONS		IONIZED HELIUM	
		WIDTH (Å)	SHIFT (Å)	WIDTH (Å)	SHIFT (Å)	WIDTH (Å)	SHIFT (Å)
In II 7S-9P 5170.4 Å C=0.16E+17	5000.	0.352E-01	-0.189E-01	0.530E-02	-0.306E-02	0.535E-02	-0.250E-02
	10000.	0.304E-01	-0.163E-01	0.612E-02	-0.367E-02	0.588E-02	-0.298E-02
	20000.	0.278E-01	-0.145E-01	0.682E-02	-0.428E-02	0.622E-02	-0.338E-02
	30000.	0.272E-01	-0.128E-01	0.706E-02	-0.453E-02	0.654E-02	-0.364E-02
	50000.	0.266E-01	-0.111E-01	0.758E-02	-0.502E-02	0.684E-02	-0.402E-02
	100000.	0.250E-01	-0.863E-02	0.782E-02	-0.550E-02	0.728E-02	-0.443E-02
In II 8S-9P 12968.6 Å C=0.98E+17	5000.	0.238	-0.121	0.337E-01	-0.200E-01	0.340E-01	-0.163E-01
	10000.	0.209	-0.114	0.388E-01	-0.239E-01	0.375E-01	-0.193E-01
	20000.	0.192	-0.988E-01	0.437E-01	-0.278E-01	0.398E-01	-0.220E-01
	30000.	0.187	-0.893E-01	0.453E-01	-0.297E-01	0.413E-01	-0.238E-01
	50000.	0.183	-0.796E-01	0.475E-01	-0.325E-01	0.443E-01	-0.265E-01
	100000.	0.172	-0.622E-01	0.497E-01	-0.363E-01	0.464E-01	-0.292E-01
In II 9S-9P 60741.2 Å C=0.22E+19	5000.	6.05	-2.76	0.766	-0.490	0.765	-0.399
	10000.	5.36	-2.68	0.898	-0.582	0.843	-0.471
	20000.	4.98	-2.57	0.995	-0.676	0.938	-0.550
	30000.	4.85	-2.33	1.07	-0.736	0.950	-0.585
	50000.	4.71	-2.04	1.17	-0.819	1.01	-0.633
	100000.	4.44	-1.68	1.26	-0.958	1.09	-0.724
In II 5P-9D 1013.2 Å C=0.38E+15	5000.	0.614E-03	-0.201E-03	0.257E-03	-0.888E-04	0.271E-03	-0.726E-04
	10000.	0.464E-03	-0.169E-03	0.285E-03	-0.106E-03	0.288E-03	-0.863E-04
	20000.	0.379E-03	-0.136E-03	0.306E-03	-0.125E-03	0.301E-03	-0.101E-03
	30000.	0.348E-03	-0.128E-03	0.309E-03	-0.133E-03	0.305E-03	-0.107E-03
	50000.	0.320E-03	-0.109E-03	0.326E-03	-0.148E-03	0.314E-03	-0.119E-03
	100000.	0.296E-03	-0.835E-04	0.348E-03	-0.169E-03	0.319E-03	-0.140E-03
In II 6P-9D 2844.1 Å C=0.30E+16	5000.	0.519E-02	-0.166E-02	0.204E-02	-0.697E-03	0.215E-02	-0.569E-03
	10000.	0.394E-02	-0.134E-02	0.226E-02	-0.829E-03	0.229E-02	-0.676E-03
	20000.	0.323E-02	-0.105E-02	0.243E-02	-0.978E-03	0.238E-02	-0.788E-03
	30000.	0.297E-02	-0.972E-03	0.245E-02	-0.104E-02	0.242E-02	-0.842E-03
	50000.	0.273E-02	-0.811E-03	0.259E-02	-0.115E-02	0.249E-02	-0.935E-03
	100000.	0.252E-02	-0.591E-03	0.275E-02	-0.133E-02	0.252E-02	-0.110E-02
In II 7P-9D 6181.7 Å C=0.14E+17	5000.	0.273E-01	-0.600E-02	0.985E-02	-0.315E-02	0.104E-01	-0.258E-02
	10000.	0.213E-01	-0.419E-02	0.109E-01	-0.377E-02	0.111E-01	-0.306E-02
	20000.	0.180E-01	-0.324E-02	0.116E-01	-0.442E-02	0.114E-01	-0.355E-02
	30000.	0.169E-01	-0.295E-02	0.118E-01	-0.484E-02	0.116E-01	-0.387E-02
	50000.	0.158E-01	-0.223E-02	0.122E-01	-0.525E-02	0.118E-01	-0.430E-02
	100000.	0.148E-01	-0.154E-02	0.131E-01	-0.610E-02	0.123E-01	-0.503E-02
In II 8P-9D 13567.2 Å C=0.69E+17	5000.	0.162	0.159E-02	0.507E-01	-0.120E-01	*0.539E-01	-0.986E-02
	10000.	0.135	0.612E-02	0.557E-01	-0.145E-01	0.568E-01	-0.118E-01
	20000.	0.121	0.719E-02	0.581E-01	-0.171E-01	0.588E-01	-0.136E-01
	30000.	0.116	0.709E-02	0.594E-01	-0.185E-01	0.594E-01	-0.150E-01
	50000.	0.112	0.755E-02	0.608E-01	-0.207E-01	0.610E-01	-0.160E-01
	100000.	0.106	0.719E-02	0.639E-01	-0.227E-01	0.624E-01	-0.178E-01
In II 5D-9P 2593.1 Å C=0.39E+16	5000.	0.869E-02	-0.457E-02	0.134E-02	-0.763E-03	0.135E-02	-0.624E-03
	10000.	0.746E-02	-0.392E-02	0.154E-02	-0.913E-03	0.149E-02	-0.745E-03
	20000.	0.681E-02	-0.345E-02	0.171E-02	-0.107E-02	0.157E-02	-0.849E-03
	30000.	0.663E-02	-0.302E-02	0.178E-02	-0.113E-02	0.165E-02	-0.909E-03
	50000.	0.648E-02	-0.260E-02	0.190E-02	-0.125E-02	0.172E-02	-0.100E-02
	100000.	0.609E-02	-0.201E-02	0.199E-02	-0.138E-02	0.184E-02	-0.111E-02
In II 6D-9P 6254.5 Å C=0.23E+17	5000.	0.543E-01	-0.256E-01	0.783E-02	-0.431E-02	0.796E-02	-0.354E-02
	10000.	0.475E-01	-0.220E-01	0.899E-02	-0.514E-02	0.878E-02	-0.422E-02
	20000.	0.441E-01	-0.192E-01	0.100E-01	-0.606E-02	0.932E-02	-0.477E-02
	30000.	0.434E-01	-0.168E-01	0.106E-01	-0.650E-02	0.972E-02	-0.515E-02
	50000.	0.426E-01	-0.145E-01	0.111E-01	-0.710E-02	0.102E-01	-0.578E-02
	100000.	0.402E-01	-0.112E-01	0.117E-01	-0.783E-02	0.110E-01	-0.642E-02
In II 7D-8P 84416.7 Å C=0.57E+19	5000.	6.46	-1.60	0.748	-0.156	0.806	-0.134
	10000.	5.77	-1.31	0.843	-0.196	0.889	-0.160
	20000.	5.59	-1.19	0.913	-0.236	0.928	-0.193
	30000.	5.55	-1.06	0.940	-0.261	0.945	-0.208
	50000.	5.49	-0.888	0.973	-0.289	0.961	-0.228
	100000.	5.25	-0.728	1.01	-0.324	0.992	-0.263

PERTURBERS ARE: TRANSITION	T(K)	ELECTRONS		PROTONS		IONIZED HELIUM	
		WIDTH (Å)	SHIFT (Å)	WIDTH (Å)	SHIFT (Å)	WIDTH (Å)	SHIFT (Å)
In II 7D-9P 16584.0 Å C=0.16E+18	5000.	0.415	-0.173	0.578E-01	-0.286E-01	0.596E-01	-0.234E-01
	10000.	0.375	-0.148	0.659E-01	-0.344E-01	0.648E-01	-0.276E-01
	20000.	0.361	-0.128	0.708E-01	-0.396E-01	0.681E-01	-0.324E-01
	30000.	0.361	-0.113	0.762E-01	-0.440E-01	0.712E-01	-0.351E-01
	50000.	0.359	-0.965E-01	0.791E-01	-0.467E-01	0.729E-01	-0.380E-01
	100000.	0.343	-0.749E-01	0.840E-01	-0.520E-01	0.777E-01	-0.435E-01
In II 5D-6F 2678.2 Å C=0.26E+16	5000.	0.102E-01	0.610E-02	0.134E-02	0.117E-02	0.122E-02	0.963E-03
	10000.	0.896E-02	0.514E-02	0.166E-02	0.140E-02	0.143E-02	0.113E-02
	20000.	0.822E-02	0.433E-02	0.194E-02	0.163E-02	0.163E-02	0.130E-02
	30000.	0.812E-02	0.382E-02	0.212E-02	0.178E-02	0.176E-02	0.137E-02
	50000.	0.795E-02	0.320E-02	0.229E-02	0.190E-02	0.195E-02	0.158E-02
	100000.	0.742E-02	0.244E-02	0.268E-02	0.216E-02	0.218E-02	0.177E-02
In II 5D-7F 2456.1 Å C=0.15E+16	5000.	0.160E-01	0.102E-01	0.248E-02	0.214E-02	*0.219E-02	*0.172E-02
	10000.	0.143E-01	0.874E-02	0.293E-02	0.247E-02	*0.260E-02	*0.201E-02
	20000.	0.138E-01	0.753E-02	0.354E-02	0.286E-02	0.287E-02	0.226E-02
	30000.	0.137E-01	0.665E-02	0.369E-02	0.308E-02	0.286E-02	0.241E-02
	50000.	0.134E-01	0.556E-02	0.406E-02	0.323E-02	0.348E-02	0.268E-02
	100000.	0.125E-01	0.417E-02	0.421E-02	0.381E-02	0.390E-02	0.291E-02
In II 5D-8F 2678.2 Å C=0.26E+16	5000.	0.102E-01	0.611E-02	0.134E-02	0.117E-02	0.122E-02	0.964E-03
	10000.	0.897E-02	0.515E-02	0.166E-02	0.140E-02	0.143E-02	0.113E-02
	20000.	0.822E-02	0.435E-02	0.194E-02	0.163E-02	0.164E-02	0.130E-02
	30000.	0.813E-02	0.384E-02	0.212E-02	0.178E-02	0.176E-02	0.137E-02
	50000.	0.796E-02	0.322E-02	0.229E-02	0.190E-02	0.195E-02	0.158E-02
	100000.	0.743E-02	0.245E-02	0.268E-02	0.216E-02	0.218E-02	0.177E-02
In II 5D-9F 2252.3 Å C=0.68E+15	5000.	0.375E-01	0.245E-01	*0.684E-02	*0.557E-02		
	10000.	0.336E-01	0.215E-01	*0.801E-02	*0.657E-02		
	20000.	0.337E-01	0.180E-01	*0.852E-02	*0.711E-02	*0.730E-02	*0.573E-02
	30000.	0.338E-01	0.166E-01	*0.968E-02	*0.826E-02	*0.767E-02	*0.618E-02
	50000.	0.328E-01	0.137E-01	*0.955E-02	*0.836E-02	*0.916E-02	*0.668E-02
	100000.	0.308E-01	0.104E-01	*0.128E-01	*0.107E-01	*0.934E-02	*0.705E-02
In II 6D-7F 5512.6 Å C=0.76E+16	5000.	0.856E-01	0.520E-01	0.127E-01	0.109E-01	*0.112E-01	*0.875E-02
	10000.	0.765E-01	0.447E-01	0.148E-01	0.125E-01	*0.132E-01	*0.101E-01
	20000.	0.738E-01	0.386E-01	0.180E-01	0.144E-01	0.146E-01	0.115E-01
	30000.	0.734E-01	0.341E-01	0.189E-01	0.156E-01	0.146E-01	0.123E-01
	50000.	0.715E-01	0.285E-01	0.204E-01	0.164E-01	0.176E-01	0.135E-01
	100000.	0.669E-01	0.214E-01	0.215E-01	0.193E-01	0.196E-01	0.148E-01
In II 6D-8F 4919.5 Å C=0.43E+16	5000.	0.114	0.679E-01	*0.189E-01	*0.159E-01	*0.166E-01	*0.128E-01
	10000.	0.102	0.631E-01	*0.213E-01	*0.182E-01	*0.183E-01	*0.145E-01
	20000.	0.101	0.525E-01	0.256E-01	0.212E-01	*0.213E-01	*0.164E-01
	30000.	0.101	0.485E-01	0.274E-01	0.228E-01	*0.210E-01	*0.187E-01
	50000.	0.982E-01	0.401E-01	0.294E-01	0.240E-01	*0.239E-01	*0.187E-01
	100000.	0.920E-01	0.304E-01	0.324E-01	0.261E-01	0.277E-01	0.238E-01
In II 6D-9F 4582.3 Å C=0.28E+16	5000.	0.155	0.102	*0.284E-01	*0.231E-01		
	10000.	0.142	0.894E-01	*0.333E-01	*0.272E-01		
	20000.	0.142	0.750E-01	*0.352E-01	*0.295E-01	*0.303E-01	*0.238E-01
	30000.	0.143	0.691E-01	*0.403E-01	*0.343E-01	*0.317E-01	*0.256E-01
	50000.	0.139	0.570E-01	*0.396E-01	*0.347E-01	*0.379E-01	*0.277E-01
	100000.	0.130	0.434E-01	*0.530E-01	*0.441E-01	*0.386E-01	*0.292E-01
In II 7D-7F 12222.4 Å C=0.37E+17	5000.	0.447	0.259	0.638E-01	0.539E-01	*0.563E-01	*0.435E-01
	10000.	0.403	0.223	0.742E-01	0.623E-01	*0.662E-01	*0.501E-01
	20000.	0.393	0.193	0.893E-01	0.711E-01	0.727E-01	0.566E-01
	30000.	0.392	0.171	0.950E-01	0.772E-01	0.744E-01	0.619E-01
	50000.	0.385	0.143	0.102	0.820E-01	0.864E-01	0.664E-01
	100000.	0.362	0.107	0.108	0.964E-01	0.991E-01	0.732E-01
In II 7D-8F 9644.5 Å C=0.17E+17	5000.	0.453	0.262	*0.732E-01	*0.613E-01	*0.644E-01	*0.493E-01
	10000.	0.410	0.245	*0.823E-01	*0.704E-01	*0.713E-01	*0.562E-01
	20000.	0.407	0.203	0.997E-01	0.820E-01	*0.824E-01	*0.635E-01
	30000.	0.408	0.188	0.106	0.884E-01	*0.822E-01	*0.725E-01
	50000.	0.398	0.156	0.113	0.931E-01	*0.912E-01	*0.720E-01
	100000.	0.374	0.118	0.125	0.101	0.107	0.917E-01

STARK BROADENING PARAMETER TABLES FOR In II

PERTURBERS ARE: TRANSITION	T(K)	ELECTRONS		PROTONS		IONIZED HELIUM	
		WIDTH (Å)	SHIFT (Å)	WIDTH (Å)	SHIFT (Å)	WIDTH (Å)	SHIFT (Å)
In II 7D-9F 8428.5 Å C=0.95E+16	5000.	0.534	0.346	*0.963E-01	*0.782E-01		
	10000.	0.494	0.304	*0.113	*0.922E-01		
	20000.	0.495	0.255	*0.119	*0.998E-01	*0.103	*0.804E-01
	30000.	0.498	0.235	*0.138	*0.116	*0.107	*0.870E-01
	50000.	0.485	0.194	*0.135	*0.118	*0.128	*0.938E-01
	100000.	0.455	0.148	*0.180	*0.149	*0.130	*0.987E-01
In II 8D-8F 20309.5 Å C=0.74E+17	5000.	2.09	1.16	*0.330	*0.271	*0.292	*0.218
	10000.	1.93	1.08	*0.369	*0.310	*0.321	*0.247
	20000.	1.95	0.901	0.443	0.362	*0.369	*0.280
	30000.	1.97	0.834	0.471	0.389	*0.366	*0.319
	50000.	1.94	0.690	0.506	0.410	*0.411	*0.318
	100000.	1.83	0.524	0.558	0.446	0.479	0.406
In II 8D-9F 15577.1 Å C=0.32E+17	5000.	1.87	1.18	*0.331	*0.267		
	10000.	1.75	1.04	*0.388	*0.315		
	20000.	1.77	0.871	*0.409	*0.340	*0.354	*0.275
	30000.	1.79	0.803	*0.469	*0.397	*0.368	*0.296
	50000.	1.75	0.663	*0.460	*0.401	*0.440	*0.320
	100000.	1.66	0.505	*0.616	*0.510	*0.448	*0.338
In II 9D-9F 30218.8 Å C=0.12E+18	5000.	6.79	4.53	*1.27	*1.02		
	10000.	6.24	4.01	*1.50	*1.19		
	20000.	6.17	3.36	*1.54	*1.32	*1.35	*1.04
	30000.	6.22	3.11	*1.85	*1.51	*1.42	*1.14
	50000.	6.01	2.57	*1.77	*1.56	*1.68	*1.22
	100000.	5.62	1.96	*2.40	*1.94	*1.69	*1.31
In II 4F-6D 87637.8 Å C=0.88E+19	5000.	3.20	-0.321	0.212	-0.145	0.232	-0.124
	10000.	2.69	-0.345	0.272	-0.182	0.272	-0.150
	20000.	2.39	-0.298	0.325	-0.221	0.312	-0.179
	30000.	2.25	-0.285	0.354	-0.243	0.332	-0.198
	50000.	2.10	-0.261	0.389	-0.269	0.358	-0.219
	100000.	1.88	-0.222	0.451	-0.316	0.383	-0.244
In II 4F-7D 9009.2 Å C=0.65E+17	5000.	0.501E-01	-0.662E-02	0.499E-02	-0.252E-02	0.526E-02	-0.209E-02
	10000.	0.453E-01	-0.591E-02	0.583E-02	-0.307E-02	0.596E-02	-0.250E-02
	20000.	0.435E-01	-0.512E-02	0.669E-02	-0.368E-02	0.654E-02	-0.297E-02
	30000.	0.430E-01	-0.458E-02	0.701E-02	-0.401E-02	0.671E-02	-0.319E-02
	50000.	0.422E-01	-0.427E-02	0.751E-02	-0.446E-02	0.707E-02	-0.355E-02
	100000.	0.397E-01	-0.335E-02	0.821E-02	-0.495E-02	0.743E-02	-0.407E-02
In II 4F-9D 5087.8 Å C=0.97E+16	5000.	0.190E-01	-0.716E-02	0.659E-02	-0.234E-02	0.692E-02	-0.191E-02
	10000.	0.147E-01	-0.580E-02	0.733E-02	-0.281E-02	0.735E-02	-0.228E-02
	20000.	0.122E-01	-0.467E-02	0.780E-02	-0.330E-02	0.774E-02	-0.261E-02
	30000.	0.112E-01	-0.423E-02	0.794E-02	-0.352E-02	0.787E-02	-0.286E-02
	50000.	0.103E-01	-0.356E-02	0.845E-02	-0.396E-02	0.795E-02	-0.314E-02
	100000.	0.934E-02	-0.271E-02	0.898E-02	-0.448E-02	0.817E-02	-0.358E-02
In II 5F-7D C=0.89E+19	5000.	16.3	-7.13	1.63	-1.28	1.56	-1.05
	10000.	14.9	-5.99	1.98	-1.54	1.84	-1.25
	20000.	14.2	-4.81	2.33	-1.81	2.06	-1.45
	30000.	14.2	-4.15	2.58	-1.97	2.22	-1.58
	50000.	14.1	-3.57	2.74	-2.13	2.44	-1.75
	100000.	13.3	-2.72	3.21	-2.48	2.63	-2.04
In II 5F-9D 10685.6 Å C=0.43E+17	5000.	0.131	-0.736E-01	0.315E-01	-0.148E-01	*0.325E-01	-0.120E-01
	10000.	0.108	-0.604E-01	0.353E-01	-0.176E-01	0.348E-01	-0.142E-01
	20000.	0.957E-01	-0.486E-01	0.380E-01	-0.204E-01	0.373E-01	-0.166E-01
	30000.	0.920E-01	-0.427E-01	0.399E-01	-0.221E-01	0.378E-01	-0.175E-01
	50000.	0.880E-01	-0.360E-01	0.427E-01	-0.247E-01	0.384E-01	-0.193E-01
	100000.	0.818E-01	-0.274E-01	0.452E-01	-0.285E-01	0.409E-01	-0.216E-01
In II 6F-7D 20813.4 Å C=0.16E+18	5000.	0.757	-0.391	0.889E-01	-0.746E-01	0.823E-01	-0.607E-01
	10000.	0.683	-0.331	0.108	-0.885E-01	0.956E-01	-0.712E-01
	20000.	0.647	-0.282	0.129	-0.102	0.108	-0.817E-01
	30000.	0.645	-0.248	0.140	-0.111	0.115	-0.872E-01
	50000.	0.638	-0.210	0.149	-0.121	0.128	-0.984E-01
	100000.	0.600	-0.159	0.174	-0.134	0.143	-0.110

PERTURBERS ARE: TRANSITION	T(K)	ELECTRONS		PROTONS		IONIZED HELIUM	
		WIDTH (Å)	SHIFT (Å)	WIDTH (Å)	SHIFT (Å)	WIDTH (Å)	SHIFT (Å)
In II 6F-9D 26661.7 Å C=0.26E+18	5000. 10000. 20000. 30000. 50000. 100000.	1.28 1.08 0.988 0.966 0.931 0.867	-0.752 -0.640 -0.544 -0.482 -0.405 -0.307	0.241 0.275 0.308 0.313 0.351 0.371	-0.148 -0.175 -0.205 -0.215 -0.238 -0.266	*0.239 0.257 0.286 0.294 0.308 0.298	-0.120 -0.140 -0.165 -0.175 -0.187 -0.205
In II 8F-9D 55148.1 Å C=0.55E+18	5000. 10000. 20000. 30000. 50000. 100000.	14.6 13.1 12.7 12.7 12.3 11.5	-8.81 -8.34 -6.94 -6.45 -5.35 -4.06	*2.62 *2.99 *3.46 3.73 3.89 4.34	-2.07 -2.41 -2.73 -2.97 -3.11 -3.49	*2.34 *2.58 *2.85 *3.04 *3.12 *3.69	-1.66 -1.93 -2.12 -2.44 -2.46 -3.09
PERTURBER DENSITY = 1.E+15 cm ⁻³ SINGLETs							
In II 5S-5P 1586.5 Å C=0.86E+18	5000. 10000. 20000. 30000. 50000. 100000.	0.690E-03 0.471E-03 0.340E-03 0.284E-03 0.229E-03 0.177E-03	-0.380E-04 -0.347E-04 -0.210E-04 -0.191E-04 -0.164E-04 -0.129E-04	0.134E-04 0.274E-04 0.428E-04 0.522E-04 0.595E-04 0.673E-04	-0.405E-06 -0.827E-06 -0.163E-05 -0.233E-05 -0.338E-05 -0.485E-05	0.221E-04 0.380E-04 0.532E-04 0.589E-04 0.646E-04 0.720E-04	-0.405E-06 -0.824E-06 -0.158E-05 -0.217E-05 -0.302E-05 -0.417E-05
In II 5S-6P 911.0 Å C=0.34E+17	5000. 10000. 20000. 30000. 50000. 100000.	0.951E-03 0.761E-03 0.650E-03 0.612E-03 0.572E-03 0.520E-03	0.351E-03 0.266E-03 0.200E-03 0.176E-03 0.151E-03 0.117E-03	0.577E-04 0.846E-04 0.105E-03 0.115E-03 0.128E-03 0.143E-03	0.307E-04 0.455E-04 0.593E-04 0.662E-04 0.755E-04 0.885E-04	0.709E-04 0.935E-04 0.108E-03 0.116E-03 0.126E-03 0.136E-03	0.276E-04 0.393E-04 0.489E-04 0.541E-04 0.613E-04 0.713E-04
In II 5S-7P 783.9 Å C=0.55E+16	5000. 10000. 20000. 30000. 50000. 100000.	0.239E-02 0.202E-02 0.179E-02 0.170E-02 0.160E-02 0.145E-02	-0.105E-02 -0.869E-03 -0.695E-03 -0.616E-03 -0.534E-03 -0.423E-03	0.230E-03 0.289E-03 0.346E-03 0.387E-03 0.420E-03 0.492E-03	-0.170E-03 -0.216E-03 -0.261E-03 -0.289E-03 -0.317E-03 -0.364E-03	0.233E-03 0.278E-03 0.325E-03 0.349E-03 0.370E-03 0.406E-03	-0.140E-03 -0.175E-03 -0.213E-03 -0.230E-03 -0.254E-03 -0.289E-03
In II 5S-8P 734.8 Å C=0.38E+16	5000. 10000. 20000. 30000. 50000. 100000.	0.406E-02 0.348E-02 0.313E-02 0.302E-02 0.291E-02 0.270E-02	-0.218E-02 -0.181E-02 -0.147E-02 -0.130E-02 -0.112E-02 -0.867E-03	0.518E-03 0.620E-03 0.710E-03 0.759E-03 0.812E-03 0.917E-03	-0.320E-03 -0.408E-03 -0.492E-03 -0.532E-03 -0.591E-03 -0.657E-03	*0.517E-03 *0.604E-03 *0.654E-03 0.706E-03 0.739E-03 0.786E-03	-0.260E-03 -0.332E-03 -0.392E-03 -0.436E-03 -0.464E-03 -0.517E-03
In II 5S-9P 710.0 Å C=0.22E+16	5000. 10000. 20000. 30000. 50000. 100000.	0.745E-02 0.647E-02 0.596E-02 0.585E-02 0.568E-02 0.531E-02	-0.410E-02 -0.345E-02 -0.300E-02 -0.267E-02 -0.226E-02 -0.173E-02	*0.110E-02 *0.131E-02 *0.146E-02 *0.156E-02 0.172E-02 0.192E-02	-0.674E-03 -0.871E-03 -0.103E-02 -0.111E-02 -0.123E-02 -0.140E-02	*0.121E-02 *0.132E-02 *0.143E-02 *0.145E-02 *0.159E-02	-0.696E-03 -0.819E-03 -0.905E-03 -0.996E-03 -0.112E-02
In II 6S-6P 7843.1 Å C=0.25E+19	5000. 10000. 20000. 30000. 50000. 100000.	0.849E-01 0.678E-01 0.572E-01 0.530E-01 0.498E-01 0.456E-01	0.133E-01 0.969E-02 0.607E-02 0.617E-02 0.484E-02 0.358E-02	0.419E-02 0.610E-02 0.748E-02 0.818E-02 0.902E-02 0.998E-02	0.187E-02 0.280E-02 0.378E-02 0.421E-02 0.479E-02 0.563E-02	0.519E-02 0.682E-02 0.783E-02 0.841E-02 0.906E-02 0.958E-02	0.171E-02 0.244E-02 0.307E-02 0.343E-02 0.391E-02 0.454E-02
In II 6S-7P 3274.1 Å C=0.97E+17	5000. 10000. 20000. 30000. 50000. 100000.	0.450E-01 0.376E-01 0.329E-01 0.311E-01 0.293E-01 0.266E-01	-0.197E-01 -0.165E-01 -0.135E-01 -0.121E-01 -0.106E-01 -0.843E-02	0.403E-02 0.506E-02 0.609E-02 0.678E-02 0.739E-02 0.871E-02	-0.300E-02 -0.380E-02 -0.462E-02 -0.508E-02 -0.562E-02 -0.642E-02	0.409E-02 0.487E-02 0.567E-02 0.607E-02 0.647E-02 0.710E-02	-0.247E-02 -0.309E-02 -0.374E-02 -0.405E-02 -0.447E-02 -0.509E-02
In II 6S-8P 2559.7 Å C=0.46E+17	5000. 10000. 20000. 30000. 50000. 100000.	0.512E-01 0.436E-01 0.390E-01 0.375E-01 0.362E-01 0.336E-01	-0.269E-01 -0.224E-01 -0.183E-01 -0.163E-01 -0.142E-01 -0.111E-01	0.630E-02 0.753E-02 0.861E-02 0.923E-02 0.991E-02 0.112E-01	-0.390E-02 -0.498E-02 -0.599E-02 -0.648E-02 -0.722E-02 -0.801E-02	*0.628E-02 *0.733E-02 *0.794E-02 0.859E-02 0.896E-02 0.949E-02	-0.316E-02 -0.404E-02 -0.478E-02 -0.529E-02 -0.565E-02 -0.627E-02

STARK BROADENING PARAMETER TABLES FOR In II

PERTURBERS ARE: TRANSITION	T(K)	ELECTRONS		PROTONS		IONIZED HELIUM	
		WIDTH (Å)	SHIFT (Å)	WIDTH (Å)	SHIFT (Å)	WIDTH (Å)	SHIFT (Å)
In II 6S-9P 2282.3 Å C=0.23E+17	5000.	0.784E-01	-0.425E-01	*0.114E-01	-0.697E-02		
	10000.	0.679E-01	-0.359E-01	*0.135E-01	-0.901E-02	*0.126E-01	-0.720E-02
	20000.	0.623E-01	-0.313E-01	*0.151E-01	-0.107E-01	*0.136E-01	-0.847E-02
	30000.	0.612E-01	-0.280E-01	*0.161E-01	-0.115E-01	*0.147E-01	-0.935E-02
	50000.	0.594E-01	-0.238E-01	0.177E-01	-0.127E-01	*0.150E-01	-0.103E-01
	100000.	0.555E-01	-0.184E-01	0.198E-01	-0.144E-01	*0.164E-01	-0.115E-01
In II 7S-7P 23806.7 Å C=0.51E+19	5000.	3.19	-1.49	0.229	-0.181	0.226	-0.146
	10000.	2.62	-1.30	0.288	-0.226	0.273	-0.184
	20000.	2.23	-1.08	0.350	-0.276	0.322	-0.224
	30000.	2.11	-0.979	0.390	-0.305	0.348	-0.246
	50000.	1.98	-0.851	0.438	-0.336	0.370	-0.268
	100000.	1.78	-0.675	0.487	-0.377	0.410	-0.303
In II 7S-8P 7859.1 Å C=0.43E+18	5000.	0.549	-0.292	0.602E-01	-0.384E-01	*0.598E-01	-0.310E-01
	10000.	0.468	-0.258	0.728E-01	-0.489E-01	*0.697E-01	-0.392E-01
	20000.	0.418	-0.212	0.848E-01	-0.595E-01	*0.776E-01	-0.475E-01
	30000.	0.401	-0.190	0.904E-01	-0.644E-01	0.825E-01	-0.511E-01
	50000.	0.386	-0.165	0.100	-0.721E-01	0.859E-01	-0.559E-01
	100000.	0.358	-0.129	0.103	-0.774E-01	0.919E-01	-0.624E-01
In II 7S-9P 5723.4 Å C=0.14E+18	5000.	0.516	-0.283	*0.723E-01	-0.445E-01		
	10000.	0.448	-0.244	*0.852E-01	-0.573E-01	*0.791E-01	-0.454E-01
	20000.	0.414	-0.215	*0.960E-01	-0.681E-01	*0.867E-01	-0.541E-01
	30000.	0.407	-0.194	*0.102	-0.734E-01	*0.931E-01	-0.592E-01
	50000.	0.396	-0.166	0.111	-0.802E-01	*0.949E-01	-0.654E-01
	100000.	0.370	-0.128	0.126	-0.924E-01	*0.104	-0.736E-01
In II 8S-8P 39323.9 Å C=0.11E+20	5000.	15.9	-7.49	1.58	-1.06	*1.55	-0.850
	10000.	13.7	-7.14	1.89	-1.34	*1.79	-1.08
	20000.	12.2	-6.16	2.21	-1.60	*2.02	-1.29
	30000.	11.7	-5.56	2.36	-1.74	2.10	-1.39
	50000.	11.2	-4.93	2.63	-1.91	2.21	-1.52
	100000.	10.3	-3.99	2.83	-2.22	2.31	-1.71
In II 8S-9P 13715.5 Å C=0.82E+18	5000.	3.17	-1.65	*0.427	-0.264		
	10000.	2.79	-1.53	*0.503	-0.341	*0.462	-0.267
	20000.	2.58	-1.33	*0.563	-0.405	*0.503	-0.320
	30000.	2.53	-1.21	*0.588	-0.434	*0.541	-0.346
	50000.	2.46	-1.06	0.643	-0.473	*0.559	-0.390
	100000.	2.29	-0.828	0.738	-0.543	*0.612	-0.435
In II 5P-6S 2941.9 Å C=0.11E+19	5000.	0.561E-02	0.250E-02	0.553E-04	0.763E-04	0.851E-04	0.728E-04
	10000.	0.405E-02	0.185E-02	0.124E-03	0.132E-03	0.152E-03	0.118E-03
	20000.	0.286E-02	0.143E-02	0.206E-03	0.190E-03	0.226E-03	0.163E-03
	30000.	0.236E-02	0.120E-02	0.262E-03	0.225E-03	0.255E-03	0.183E-03
	50000.	0.201E-02	0.103E-02	0.313E-03	0.259E-03	0.294E-03	0.211E-03
	100000.	0.168E-02	0.833E-03	0.379E-03	0.307E-03	0.347E-03	0.251E-03
In II 5P-7S 1657.4 Å C=0.12E+18	5000.	0.619E-02	0.293E-02	0.140E-03	0.226E-03	0.133E-03	0.194E-03
	10000.	0.428E-02	0.255E-02	0.250E-03	0.320E-03	0.239E-03	0.262E-03
	20000.	0.328E-02	0.207E-02	0.371E-03	0.389E-03	0.318E-03	0.319E-03
	30000.	0.290E-02	0.198E-02	0.432E-03	0.435E-03	0.362E-03	0.352E-03
	50000.	0.262E-02	0.169E-02	0.509E-03	0.489E-03	0.424E-03	0.400E-03
	100000.	0.229E-02	0.135E-02	0.630E-03	0.571E-03	0.506E-03	0.456E-03
In II 5P-8S 1418.1 Å C=0.51E+17	5000.	0.751E-02	0.369E-02	0.289E-03	0.403E-03	0.283E-03	0.342E-03
	10000.	0.539E-02	0.355E-02	0.477E-03	0.524E-03	0.413E-03	0.428E-03
	20000.	0.448E-02	0.298E-02	0.627E-03	0.638E-03	0.522E-03	0.520E-03
	30000.	0.418E-02	0.270E-02	0.715E-03	0.708E-03	0.614E-03	0.567E-03
	50000.	0.371E-02	0.246E-02	0.833E-03	0.794E-03	0.689E-03	0.625E-03
	100000.	0.338E-02	0.197E-02	0.101E-02	0.886E-03	0.782E-03	0.713E-03
In II 5P-9S 1309.8 Å C=0.25E+17	5000.	0.122E-01	0.638E-02	0.815E-03	0.868E-03	0.698E-03	0.698E-03
	10000.	0.938E-02	0.634E-02	0.109E-02	0.109E-02	0.901E-03	0.888E-03
	20000.	0.800E-02	0.550E-02	0.138E-02	0.133E-02	0.114E-02	0.107E-02
	30000.	0.753E-02	0.500E-02	0.153E-02	0.145E-02	0.126E-02	0.114E-02
	50000.	0.703E-02	0.452E-02	0.177E-02	0.160E-02	0.136E-02	0.128E-02
	100000.	0.657E-02	0.368E-02	0.205E-02	0.180E-02	0.166E-02	0.147E-02

PERTURBERS ARE: TRANSITION	T(K)	ELECTRONS		PROTONS		IONIZED HELIUM	
		WIDTH (Å)	SHIFT (Å)	WIDTH (Å)	SHIFT (Å)	WIDTH (Å)	SHIFT (Å)
In II 6P-7S 7356.9 Å C=0.22E+19	5000.	0.113	0.469E-01	0.408E-02	0.305E-02	0.487E-02	0.262E-02
	10000.	0.898E-01	0.368E-01	0.616E-02	0.436E-02	0.649E-02	0.370E-02
	20000.	0.788E-01	0.288E-01	0.779E-02	0.549E-02	0.764E-02	0.450E-02
	30000.	0.768E-01	0.257E-01	0.861E-02	0.609E-02	0.836E-02	0.500E-02
	50000.	0.748E-01	0.219E-01	0.968E-02	0.693E-02	0.914E-02	0.563E-02
	100000.	0.712E-01	0.175E-01	0.112E-01	0.805E-02	0.981E-02	0.640E-02
In II 6P-8S 4206.3 Å C=0.45E+18	5000.	0.641E-01	0.324E-01	0.270E-02	0.322E-02	0.280E-02	0.274E-02
	10000.	0.486E-01	0.276E-01	0.420E-02	0.420E-02	0.380E-02	0.344E-02
	20000.	0.439E-01	0.225E-01	0.547E-02	0.515E-02	0.472E-02	0.417E-02
	30000.	0.413E-01	0.207E-01	0.614E-02	0.569E-02	0.526E-02	0.463E-02
	50000.	0.393E-01	0.179E-01	0.719E-02	0.628E-02	0.598E-02	0.513E-02
	100000.	0.376E-01	0.144E-01	0.854E-02	0.733E-02	0.682E-02	0.577E-02
In II 6P-9S 3377.6 Å C=0.17E+18	5000.	0.825E-01	0.410E-01	0.538E-02	0.564E-02	0.468E-02	0.455E-02
	10000.	0.636E-01	0.399E-01	0.718E-02	0.712E-02	0.602E-02	0.574E-02
	20000.	0.560E-01	0.343E-01	0.900E-02	0.867E-02	0.752E-02	0.695E-02
	30000.	0.538E-01	0.310E-01	0.991E-02	0.937E-02	0.846E-02	0.742E-02
	50000.	0.509E-01	0.278E-01	0.114E-01	0.104E-01	0.901E-02	0.823E-02
	100000.	0.486E-01	0.226E-01	0.135E-01	0.119E-01	0.110E-01	0.952E-02
In II 7P-8S 16720.8 Å C=0.25E+19	5000.	2.01	0.861	0.131	0.112	0.124	0.891E-01
	10000.	1.65	0.792	0.166	0.140	0.153	0.114
	20000.	1.41	0.706	0.203	0.170	0.182	0.138
	30000.	1.32	0.643	0.224	0.185	0.196	0.150
	50000.	1.24	0.569	0.255	0.208	0.218	0.166
	100000.	1.12	0.468	0.283	0.231	0.222	0.181
In II 7P-9S 8464.5 Å C=0.65E+18	5000.	0.756	0.307	0.497E-01	0.458E-01	*0.446E-01	*0.368E-01
	10000.	0.624	0.303	0.642E-01	0.582E-01	0.556E-01	0.473E-01
	20000.	0.538	0.297	0.800E-01	0.710E-01	0.676E-01	0.573E-01
	30000.	0.506	0.273	0.889E-01	0.769E-01	0.748E-01	0.605E-01
	50000.	0.480	0.237	0.101	0.850E-01	0.808E-01	0.667E-01
	100000.	0.443	0.203	0.105	0.957E-01	0.890E-01	0.734E-01
In II 8P-9S 30391.2 Å C=0.64E+19	5000.	12.4	5.16	*1.10	*0.819	*1.04	*0.655
	10000.	10.7	5.16	1.33	1.04	*1.24	*0.847
	20000.	9.70	5.06	1.61	1.25	*1.39	*1.00
	30000.	9.20	4.64	1.65	1.35	*1.45	*1.08
	50000.	8.81	4.04	1.95	1.53	1.58	1.17
	100000.	8.24	3.43	2.16	1.65	1.80	1.35
In II 5P-5D 1966.7 Å C=0.16E+18	5000.	0.476E-02	-0.251E-04	0.253E-03	-0.628E-04	0.319E-03	-0.579E-04
	10000.	0.366E-02	-0.624E-04	0.365E-03	-0.102E-03	0.417E-03	-0.871E-04
	20000.	0.295E-02	-0.901E-04	0.441E-03	-0.142E-03	0.473E-03	-0.118E-03
	30000.	0.266E-02	-0.117E-03	0.477E-03	-0.159E-03	0.506E-03	-0.131E-03
	50000.	0.240E-02	-0.765E-04	0.521E-03	-0.183E-03	0.539E-03	-0.149E-03
	100000.	0.212E-02	-0.766E-04	0.566E-03	-0.217E-03	0.564E-03	-0.177E-03
In II 5P-6D 1571.5 Å C=0.22E+17	5000.	0.662E-02	0.514E-03	0.570E-03	0.375E-03	0.637E-03	0.321E-03
	10000.	0.580E-02	0.645E-03	0.742E-03	0.499E-03	0.748E-03	0.410E-03
	20000.	0.532E-02	0.552E-03	0.894E-03	0.608E-03	0.868E-03	0.495E-03
	30000.	0.508E-02	0.522E-03	0.977E-03	0.673E-03	0.921E-03	0.545E-03
	50000.	0.480E-02	0.517E-03	0.108E-02	0.757E-03	0.997E-03	0.610E-03
	100000.	0.437E-02	0.407E-03	0.122E-02	0.868E-03	0.110E-02	0.708E-03
In II 5P-7D 1381.9 Å C=0.13E+17	5000.	0.925E-02	0.567E-03	0.116E-02	0.519E-03	*0.122E-02	*0.427E-03
	10000.	0.851E-02	0.753E-03	0.135E-02	0.659E-03	0.139E-02	0.535E-03
	20000.	0.839E-02	0.575E-03	0.154E-02	0.797E-03	0.151E-02	0.652E-03
	30000.	0.839E-02	0.545E-03	0.163E-02	0.884E-03	0.155E-02	0.710E-03
	50000.	0.832E-02	0.526E-03	0.173E-02	0.971E-03	0.163E-02	0.775E-03
	100000.	0.794E-02	0.349E-03	0.191E-02	0.112E-02	0.172E-02	0.884E-03
In II 5P-8D 1292.5 Å C=0.73E+16	5000.	0.150E-01	0.111E-02	*0.227E-02	*0.932E-03	*0.236E-02	*0.753E-03
	10000.	0.148E-01	0.707E-03	0.259E-02	0.118E-02	*0.264E-02	*0.954E-03
	20000.	0.151E-01	0.718E-03	0.284E-02	0.144E-02	*0.277E-02	*0.114E-02
	30000.	0.154E-01	0.728E-03	0.297E-02	0.154E-02	*0.289E-02	*0.125E-02
	50000.	0.157E-01	0.544E-03	0.311E-02	0.172E-02	0.298E-02	0.140E-02
	100000.	0.151E-01	0.342E-03	0.340E-02	0.193E-02	0.308E-02	0.153E-02

STARK BROADENING PARAMETER TABLES FOR In II

PERTURBERS ARE: TRANSITION	T(K)	ELECTRONS		PROTONS		IONIZED HELIUM	
		WIDTH (Å)	SHIFT (Å)	WIDTH (Å)	SHIFT (Å)	WIDTH (Å)	SHIFT (Å)
In II 5P-9D 1243.1 Å C=0.43E+16	5000.	0.247E-01	0.154E-02	*0.418E-02	*0.171E-02		
	10000.	0.254E-01	0.805E-03	*0.474E-02	*0.219E-02		
	20000.	0.269E-01	0.774E-03	*0.507E-02	*0.261E-02	*0.493E-02	*0.211E-02
	30000.	0.278E-01	0.851E-03	*0.529E-02	*0.281E-02	*0.497E-02	*0.223E-02
	50000.	0.284E-01	0.494E-03	0.554E-02	0.312E-02	*0.519E-02	*0.254E-02
	100000.	0.275E-01	0.333E-03	0.567E-02	0.349E-02	*0.531E-02	*0.281E-02
In II 6P-6D 5920.4 Å C=0.32E+18	5000.	0.118	-0.271E-02	0.889E-02	0.455E-02	0.100E-01	0.393E-02
	10000.	0.102	0.244E-03	0.112E-01	0.622E-02	0.116E-01	0.507E-02
	20000.	0.939E-01	0.617E-03	0.131E-01	0.756E-02	0.131E-01	0.615E-02
	30000.	0.903E-01	0.401E-03	0.144E-01	0.840E-02	0.138E-01	0.677E-02
	50000.	0.857E-01	0.909E-03	0.154E-01	0.936E-02	0.145E-01	0.754E-02
	100000.	0.785E-01	0.774E-03	0.170E-01	0.107E-01	0.153E-01	0.855E-02
In II 6P-7D 3903.2 Å C=0.11E+18	5000.	0.827E-01	-0.470E-03	0.949E-02	0.389E-02	*0.101E-01	*0.322E-02
	10000.	0.757E-01	0.633E-03	0.110E-01	0.496E-02	0.114E-01	0.402E-02
	20000.	0.745E-01	0.451E-03	0.125E-01	0.600E-02	0.124E-01	0.489E-02
	30000.	0.744E-01	0.560E-03	0.131E-01	0.659E-02	0.128E-01	0.536E-02
	50000.	0.736E-01	0.103E-02	0.140E-01	0.739E-02	0.131E-01	0.588E-02
	100000.	0.702E-01	0.325E-03	0.153E-01	0.854E-02	0.137E-01	0.665E-02
In II 6P-8D 3265.0 Å C=0.47E+17	5000.	0.100	0.339E-02	*0.146E-01	*0.583E-02	*0.152E-01	*0.473E-02
	10000.	0.991E-01	0.167E-02	0.167E-01	0.740E-02	*0.170E-01	*0.599E-02
	20000.	0.102	0.890E-03	0.184E-01	0.898E-02	*0.178E-01	*0.724E-02
	30000.	0.103	0.154E-02	0.191E-01	0.969E-02	*0.187E-01	*0.773E-02
	50000.	0.105	0.107E-02	0.201E-01	0.108E-01	0.192E-01	0.886E-02
	100000.	0.101	0.282E-03	0.219E-01	0.123E-01	0.198E-01	0.955E-02
In II 6P-9D 2967.0 Å C=0.25E+17	5000.	0.144	0.573E-02	*0.239E-01	*0.970E-02		
	10000.	0.148	0.363E-02	*0.271E-01	*0.124E-01		
	20000.	0.157	0.185E-02	*0.289E-01	*0.148E-01	*0.283E-01	*0.119E-01
	30000.	0.162	0.244E-02	*0.302E-01	*0.159E-01	*0.284E-01	*0.126E-01
	50000.	0.166	0.744E-03	0.315E-01	0.176E-01	*0.297E-01	*0.144E-01
	100000.	0.160	0.397E-03	0.321E-01	0.197E-01	*0.307E-01	*0.157E-01
In II 7P-7D 12776.1 Å C=0.11E+19	5000.	1.21	0.322	0.131	0.734E-01	*0.134	*0.584E-01
	10000.	1.12	0.289	0.155	0.918E-01	*0.155	*0.750E-01
	20000.	1.08	0.230	0.179	0.112	0.170	0.896E-01
	30000.	1.08	0.204	0.192	0.121	0.178	0.976E-01
	50000.	1.06	0.182	0.203	0.133	0.185	0.106
	100000.	1.00	0.140	0.224	0.151	0.205	0.126
In II 7P-8D 7791.2 Å C=0.26E+18	5000.	0.675	0.124	*0.915E-01	*0.420E-01	*0.946E-01	*0.338E-01
	10000.	0.658	0.103	*0.106	*0.532E-01	*0.105	*0.430E-01
	20000.	0.673	0.859E-01	0.115	0.639E-01	*0.111	*0.514E-01
	30000.	0.687	0.822E-01	0.122	0.699E-01	*0.116	*0.551E-01
	50000.	0.692	0.698E-01	0.129	0.759E-01	*0.120	*0.611E-01
	100000.	0.666	0.520E-01	0.141	0.887E-01	*0.120	*0.679E-01
In II 7P-9D 6285.1 Å C=0.11E+18	5000.	0.704	0.895E-01	*0.111	*0.479E-01		
	10000.	0.720	0.681E-01	*0.126	*0.609E-01		
	20000.	0.763	0.642E-01	*0.137	*0.730E-01	*0.131	*0.592E-01
	30000.	0.788	0.591E-01	*0.141	*0.791E-01	*0.135	*0.635E-01
	50000.	0.803	0.449E-01	*0.152	*0.880E-01	*0.134	*0.685E-01
	100000.	0.777	0.351E-01	0.168	0.103	*0.142	*0.780E-01
In II 8P-8D 23193.8 Å C=0.23E+19	5000.	7.39	2.45	*1.01	*0.498		
	10000.	7.10	2.01	*1.17	*0.637	*1.12	*0.510
	20000.	7.21	1.63	1.27	0.752	*1.22	*0.616
	30000.	7.37	1.48	1.37	0.837	*1.28	*0.675
	50000.	7.43	1.27	1.47	0.911	*1.30	*0.722
	100000.	7.15	0.959	1.57	0.995	1.41	0.822
In II 8P-9D 13537.3 Å C=0.51E+18	5000.	3.56	0.822	*0.567	*0.256		
	10000.	3.65	0.657	*0.648	*0.330		
	20000.	3.91	0.568	*0.696	*0.392		
	30000.	4.05	0.523	*0.721	*0.421	*0.680	*0.336
	50000.	4.13	0.424	*0.763	*0.459	*0.714	*0.377
	100000.	4.01	0.327	0.848	0.526	*0.752	*0.421

PERTURBERS ARE: TRANSITION	T(K)	ELECTRONS		PROTONS		IONIZED HELIUM	
		WIDTH (Å)	SHIFT (Å)	WIDTH (Å)	SHIFT (Å)	WIDTH (Å)	SHIFT (Å)
In II 5D-6P 24362.4 Å C=0.24E+20	5000.	1.14	0.327	0.682E-01	0.294E-01	0.841E-01	0.255E-01
	10000.	0.911	0.231	0.953E-01	0.423E-01	0.101	0.362E-01
	20000.	0.775	0.158	0.111	0.536E-01	0.116	0.440E-01
	30000.	0.727	0.147	0.121	0.599E-01	0.123	0.488E-01
	50000.	0.679	0.124	0.132	0.685E-01	0.130	0.554E-01
	100000.	0.618	0.940E-01	0.144	0.790E-01	0.137	0.634E-01
In II 5D-7P 7305.4 Å C=0.48E+18	5000.	0.236	-0.813E-01	0.211E-01	-0.144E-01	0.216E-01	-0.119E-01
	10000.	0.199	-0.690E-01	0.261E-01	-0.183E-01	0.256E-01	-0.149E-01
	20000.	0.177	-0.566E-01	0.310E-01	-0.222E-01	0.296E-01	-0.182E-01
	30000.	0.169	-0.506E-01	0.343E-01	-0.246E-01	0.315E-01	-0.198E-01
	50000.	0.160	-0.443E-01	0.373E-01	-0.270E-01	0.331E-01	-0.215E-01
	100000.	0.146	-0.355E-01	0.433E-01	-0.313E-01	0.359E-01	-0.244E-01
In II 5D-8P 4502.1 Å C=0.14E+18	5000.	0.162	-0.791E-01	0.197E-01	-0.119E-01	*0.198E-01	-0.967E-02
	10000.	0.139	-0.656E-01	0.235E-01	-0.152E-01	*0.231E-01	-0.124E-01
	20000.	0.125	-0.533E-01	0.270E-01	-0.183E-01	*0.250E-01	-0.146E-01
	30000.	0.121	-0.473E-01	0.290E-01	-0.199E-01	0.268E-01	-0.163E-01
	50000.	0.117	-0.409E-01	0.306E-01	-0.219E-01	0.282E-01	-0.175E-01
	100000.	0.109	-0.319E-01	0.347E-01	-0.245E-01	0.300E-01	-0.193E-01
In II 5D-9P 3709.2 Å C=0.60E+17	5000.	0.210	-0.111	*0.303E-01	-0.183E-01		
	10000.	0.182	-0.931E-01	*0.359E-01	-0.237E-01	*0.334E-01	-0.190E-01
	20000.	0.168	-0.808E-01	*0.401E-01	-0.280E-01	*0.361E-01	-0.223E-01
	30000.	0.165	-0.720E-01	*0.428E-01	-0.304E-01	*0.391E-01	-0.247E-01
	50000.	0.160	-0.610E-01	0.470E-01	-0.335E-01	*0.397E-01	-0.270E-01
	100000.	0.150	-0.469E-01	0.526E-01	-0.380E-01	*0.436E-01	-0.305E-01
In II 6D-8P 10609.0 Å C=0.78E+18	5000.	1.07	-0.504	0.120	-0.734E-01	*0.120	-0.592E-01
	10000.	0.930	-0.419	0.142	-0.934E-01	*0.137	-0.761E-01
	20000.	0.843	-0.342	0.167	-0.114	*0.152	-0.910E-01
	30000.	0.813	-0.300	0.175	-0.122	0.157	-0.967E-01
	50000.	0.786	-0.258	0.194	-0.135	0.167	-0.107
	100000.	0.728	-0.201	0.204	-0.154	0.171	-0.118
In II 6D-9P 7055.2 Å C=0.22E+18	5000.	0.832	-0.423	*0.114	-0.689E-01		
	10000.	0.727	-0.356	*0.134	-0.888E-01		
	20000.	0.674	-0.311	*0.150	-0.106	*0.134	-0.833E-01
	30000.	0.661	-0.277	*0.157	-0.113	*0.146	-0.912E-01
	50000.	0.641	-0.234	0.172	-0.124	*0.149	-0.101
	100000.	0.597	-0.180	0.196	-0.142	*0.164	-0.114
In II 7D-9P 18367.2 Å C=0.15E+19	5000.	6.06	-2.88	*0.823	-0.484		
	10000.	5.44	-2.43	*0.965	-0.618		
	20000.	5.15	-2.12	*1.07	-0.739	*0.976	-0.591
	30000.	5.12	-1.88	*1.13	-0.804	*1.01	-0.624
	50000.	5.03	-1.60	1.22	-0.879	*1.08	-0.716
	100000.	4.74	-1.22	1.37	-0.993	*1.17	-0.803
In II 5D-4F 10189.5 Å C=0.31E+19	5000.	0.226	0.317E-01	0.162E-01	0.472E-02	0.198E-01	0.414E-02
	10000.	0.178	0.227E-01	0.214E-01	0.686E-02	0.230E-01	0.586E-02
	20000.	0.148	0.165E-01	0.245E-01	0.872E-02	0.259E-01	0.718E-02
	30000.	0.135	0.150E-01	0.263E-01	0.979E-02	0.273E-01	0.799E-02
	50000.	0.123	0.122E-01	0.283E-01	0.111E-01	0.284E-01	0.905E-02
	100000.	0.110	0.952E-02	0.298E-01	0.129E-01	0.293E-01	0.105E-01
In II 5D-5F 4975.2 Å C=0.13E+18	5000.	0.172	0.927E-01	0.180E-01	0.150E-01	*0.171E-01	*0.122E-01
	10000.	0.149	0.753E-01	0.227E-01	0.191E-01	0.206E-01	0.155E-01
	20000.	0.136	0.606E-01	0.273E-01	0.231E-01	0.236E-01	0.184E-01
	30000.	0.132	0.533E-01	0.300E-01	0.250E-01	0.265E-01	0.203E-01
	50000.	0.127	0.453E-01	0.333E-01	0.281E-01	0.282E-01	0.216E-01
	100000.	0.117	0.348E-01	0.385E-01	0.305E-01	0.312E-01	0.243E-01
In II 5D-6F 3890.9 Å C=0.51E+17	5000.	0.216	0.124	*0.283E-01	*0.218E-01	*0.253E-01	*0.173E-01
	10000.	0.188	0.108	*0.345E-01	*0.279E-01	*0.299E-01	*0.223E-01
	20000.	0.174	0.879E-01	*0.404E-01	*0.337E-01	*0.343E-01	*0.268E-01
	30000.	0.171	0.781E-01	0.436E-01	0.368E-01	*0.369E-01	*0.283E-01
	50000.	0.167	0.658E-01	0.483E-01	0.396E-01	*0.399E-01	*0.328E-01
	100000.	0.155	0.500E-01	0.565E-01	0.453E-01	*0.450E-01	*0.366E-01

PERTURBERS ARE: TRANSITION	T(K)	ELECTRONS		PROTONS		IONIZED HELIUM	
		WIDTH (Å)	SHIFT (Å)	WIDTH (Å)	SHIFT (Å)	WIDTH (Å)	SHIFT (Å)
In II 5D-7F 3439.4 Å C=0.27E+17	5000.	0.310	0.187				
	10000.	0.277	0.161	*0.565E-01	*0.444E-01		
	20000.	0.265	0.139	*0.673E-01	*0.545E-01		
	30000.	0.261	0.123	*0.730E-01	*0.581E-01		
	50000.	0.255	0.103	*0.791E-01	*0.620E-01	*0.648E-01	*0.512E-01
	100000.	0.237	0.783E-01	*0.810E-01	*0.715E-01	*0.757E-01	*0.561E-01
In II 5D-8F 3199.0 Å C=0.16E+17	5000.	0.466	0.283				
	10000.	0.418	0.248				
	20000.	0.411	0.208				
	30000.	0.407	0.193				
	50000.	0.394	0.159				
	100000.	0.368	0.122	*0.138	*0.110		
In II 5D-9F 3053.1 Å C=0.11E+17	5000.	*0.692	*0.422				
	10000.	0.628	0.368				
	20000.	0.624	0.313				
	30000.	0.621	0.285				
	50000.	0.601	0.239				
	100000.	0.561	0.184				
In II 6D-6F 7742.9 Å C=0.20E+18	5000.	0.878	0.482	*0.110	*0.842E-01	*0.100	*0.664E-01
	10000.	0.782	0.397	*0.136	*0.109	*0.119	*0.853E-01
	20000.	0.747	0.324	*0.158	*0.129	*0.133	*0.102
	30000.	0.741	0.289	0.168	0.138	*0.149	*0.110
	50000.	0.726	0.244	0.187	0.151	*0.153	*0.124
	100000.	0.678	0.186	0.220	0.173	*0.173	*0.139
In II 6D-7F 6139.2 Å C=0.86E+17	5000.	1.00	0.579				
	10000.	0.909	0.499	*0.180	*0.140		
	20000.	0.877	0.428	*0.214	*0.173		
	30000.	0.870	0.379	*0.231	*0.185		
	50000.	0.850	0.317	*0.255	*0.197	*0.208	*0.162
	100000.	0.795	0.242	*0.256	*0.222	*0.241	*0.176
In II 6D-8F 5413.2 Å C=0.47E+17	5000.	1.34	0.801				
	10000.	1.22	0.699				
	20000.	1.20	0.587				
	30000.	1.19	0.542				
	50000.	1.16	0.447				
	100000.	1.08	0.343	*0.394	*0.312		
In II 6D-9F 5008.2 Å C=0.29E+17	5000.	*1.87	*1.13				
	10000.	1.71	0.980				
	20000.	1.70	0.833				
	30000.	1.70	0.773				
	50000.	1.64	0.636				
	100000.	1.53	0.490				
In II 7D-7F 13228.8 Å C=0.40E+18	5000.	4.85	2.69				
	10000.	4.48	2.31	*0.838	*0.641		
	20000.	4.39	1.98	*0.983	*0.796		
	30000.	4.38	1.76	*1.07	*0.849		
	50000.	4.31	1.47	*1.18	*0.915	*0.960	*0.744
	100000.	4.06	1.12	*1.19	*1.01	*1.14	*0.818
In II 7D-8F 10262.7 Å C=0.17E+18	5000.	4.92	2.86				
	10000.	4.52	2.51				
	20000.	4.51	2.11				
	30000.	4.48	1.94				
	50000.	4.38	1.60				
	100000.	4.11	1.23	*1.43	*1.11		
In II 7D-9F 8898.5 Å C=0.91E+17	5000.	*5.98	*3.55				
	10000.	5.49	3.09				
	20000.	5.51	2.62				
	30000.	5.49	2.44				
	50000.	5.34	2.00				
	100000.	5.00	1.55				

PERTURBERS ARE: TRANSITION	T(K)	ELECTRONS		PROTONS		IONIZED HELIUM	
		WIDTH (Å)	SHIFT (Å)	WIDTH (Å)	SHIFT (Å)	WIDTH (Å)	SHIFT (Å)
In II 8D-8F 21114.8 Å C=0.71E+18	5000.	22.1	12.0				
	10000.	20.7	10.6				
	20000.	20.8	8.92				
	30000.	20.9	8.18				
	50000.	20.5	6.77				
	100000.	19.4	5.22	*6.22	*4.74		
In II 8D-9F 16051.6 Å C=0.30E+18	5000.	*20.1	*11.5				
	10000.	*18.7	*10.0				
	20000.	18.9	8.54				
	30000.	18.9	7.78				
	50000.	18.5	6.51				
	100000.	17.4	5.03				
In II 4F-6D 33646.4 Å C=0.10E+20	5000.	3.95	0.148	0.323	0.150	0.359	0.130
	10000.	3.39	0.220	0.398	0.205	0.414	0.167
	20000.	3.09	0.157	0.463	0.250	0.468	0.203
	30000.	2.94	0.142	0.502	0.277	0.489	0.224
	50000.	2.77	0.152	0.533	0.307	0.511	0.247
	100000.	2.52	0.106	0.587	0.356	0.532	0.280
In II 4F-7D 8545.9 Å C=0.51E+18	5000.	0.410	0.161E-01	0.469E-01	0.188E-01	*0.499E-01	*0.156E-01
	10000.	0.370	0.232E-01	0.544E-01	0.240E-01	0.564E-01	0.194E-01
	20000.	0.361	0.156E-01	0.615E-01	0.290E-01	0.610E-01	0.236E-01
	30000.	0.358	0.141E-01	0.647E-01	0.319E-01	0.632E-01	0.259E-01
	50000.	0.352	0.144E-01	0.685E-01	0.357E-01	0.643E-01	0.285E-01
	100000.	0.334	0.810E-02	0.751E-01	0.415E-01	0.679E-01	0.319E-01
In II 4F-8D 5984.6 Å C=0.16E+18	5000.	0.346	0.173E-01	*0.496E-01	*0.197E-01	*0.517E-01	*0.159E-01
	10000.	0.338	0.922E-02	0.567E-01	0.249E-01	*0.577E-01	*0.202E-01
	20000.	0.343	0.806E-02	0.622E-01	0.303E-01	*0.604E-01	*0.244E-01
	30000.	0.348	0.100E-01	0.646E-01	0.326E-01	*0.634E-01	*0.261E-01
	50000.	0.352	0.814E-02	0.677E-01	0.364E-01	0.648E-01	0.298E-01
	100000.	0.339	0.413E-02	0.738E-01	0.413E-01	0.668E-01	0.321E-01
In II 4F-9D 5054.3 Å C=0.71E+17	5000.	0.425	0.200E-01	*0.697E-01	*0.282E-01		
	10000.	0.433	0.136E-01	*0.789E-01	*0.360E-01		
	20000.	0.457	0.868E-02	*0.841E-01	*0.431E-01	*0.823E-01	*0.346E-01
	30000.	0.471	0.103E-01	*0.879E-01	*0.461E-01	*0.829E-01	*0.367E-01
	50000.	0.480	0.503E-02	0.918E-01	0.511E-01	*0.865E-01	*0.419E-01
	100000.	0.465	0.346E-02	0.937E-01	0.572E-01	*0.893E-01	*0.457E-01
In II 5F-6D 13673.0 Å C=0.99E+18	5000.	1.41	-0.588	0.134	-0.101	*0.130	-0.820E-01
	10000.	1.28	-0.472	0.166	-0.128	0.155	-0.104
	20000.	1.23	-0.382	0.199	-0.155	0.179	-0.125
	30000.	1.21	-0.342	0.219	-0.168	0.184	-0.133
	50000.	1.17	-0.291	0.238	-0.187	0.208	-0.153
	100000.	1.09	-0.224	0.278	-0.214	0.234	-0.165
In II 5F-8D 15567.2 Å C=0.11E+19	5000.	3.33	-0.624	*0.347	-0.279E-01	*0.371	-0.242E-01
	10000.	3.23	-0.518	0.389	-0.388E-01	*0.407	-0.314E-01
	20000.	3.25	-0.461	0.415	-0.470E-01	*0.424	-0.383E-01
	30000.	3.28	-0.415	0.426	-0.520E-01	*0.429	-0.424E-01
	50000.	3.29	-0.358	0.437	-0.593E-01	0.437	-0.474E-01
	100000.	3.14	-0.288	0.450	-0.668E-01	0.442	-0.533E-01
In II 5F-9D 10527.1 Å C=0.31E+18	5000.	2.29	-0.153	*0.300	*0.868E-01		
	10000.	2.32	-0.198	*0.334	*0.110		
	20000.	2.41	-0.186	*0.357	*0.132	*0.353	*0.107
	30000.	2.46	-0.173	*0.359	*0.142	*0.358	*0.114
	50000.	2.50	-0.165	0.380	0.157	*0.366	*0.127
	100000.	2.40	-0.131	0.405	0.182	*0.369	*0.149
In II 6F-7D 23891.4 Å C=0.19E+19	5000.	9.14	-4.61	*1.08	-0.771		
	10000.	8.40	-3.76	*1.31	-0.995	*1.19	-0.791
	20000.	8.23	-3.08	*1.51	-1.18	*1.31	-0.939
	30000.	8.25	-2.75	1.64	-1.28	*1.46	-1.03
	50000.	8.15	-2.30	1.81	-1.39	*1.47	-1.14
	100000.	7.69	-1.77	2.08	-1.60	*1.65	-1.27

STARK BROADENING PARAMETER TABLES FOR In II

PERTURBERS ARE: TRANSITION	T(K)	ELECTRONS		PROTONS		IONIZED HELIUM	
		WIDTH (Å)	SHIFT (Å)	WIDTH (Å)	SHIFT (Å)	WIDTH (Å)	SHIFT (Å)
In II 6F-9D 25655.0 Å C=0.18E+19	5000.	17.2	-3.83	*1.94	-0.438		
	10000.	17.4	-3.65	*2.13	-0.557		
	20000.	17.9	-3.20	*2.25	-0.670	*2.25	-0.541
	30000.	18.3	-2.98	*2.31	-0.724	*2.27	-0.580
	50000.	18.5	-2.60	2.32	-0.797	*2.30	-0.635
	100000.	17.6	-2.03	2.54	-0.917	*2.44	-0.705
TRIPLETS							
In II 6S-6P 7029.8 Å C=0.29E+19	5000.	0.735E-01	-0.258E-01	0.295E-02	-0.105E-02	0.372E-02	-0.962E-03
	10000.	0.543E-01	-0.200E-01	0.433E-02	-0.163E-02	0.496E-02	-0.142E-02
	20000.	0.410E-01	-0.155E-01	0.532E-02	-0.226E-02	0.565E-02	-0.184E-02
	30000.	0.354E-01	-0.136E-01	0.579E-02	-0.251E-02	0.607E-02	-0.206E-02
	50000.	0.306E-01	-0.116E-01	0.638E-02	-0.288E-02	0.651E-02	-0.235E-02
	100000.	0.258E-01	-0.931E-02	0.700E-02	-0.343E-02	0.693E-02	-0.275E-02
In II 6S-7P 3011.3 Å C=0.21E+18	5000.	0.284E-01	-0.118E-01	0.259E-02	-0.968E-03	0.290E-02	-0.842E-03
	10000.	0.216E-01	-0.920E-02	0.314E-02	-0.136E-02	0.332E-02	-0.110E-02
	20000.	0.181E-01	-0.761E-02	0.360E-02	-0.165E-02	0.370E-02	-0.134E-02
	30000.	0.167E-01	-0.675E-02	0.388E-02	-0.182E-02	0.386E-02	-0.149E-02
	50000.	0.153E-01	-0.578E-02	0.409E-02	-0.205E-02	0.401E-02	-0.164E-02
	100000.	0.138E-01	-0.472E-02	0.449E-02	-0.239E-02	0.420E-02	-0.191E-02
In II 6S-8P 2380.1 Å C=0.67E+17	5000.	0.361E-01	-0.167E-01	0.464E-02	-0.209E-02	*0.487E-02	-0.167E-02
	10000.	0.293E-01	-0.139E-01	0.540E-02	-0.262E-02	*0.555E-02	-0.212E-02
	20000.	0.257E-01	-0.121E-01	0.608E-02	-0.316E-02	0.598E-02	-0.256E-02
	30000.	0.243E-01	-0.108E-01	0.643E-02	-0.350E-02	0.615E-02	-0.279E-02
	50000.	0.232E-01	-0.922E-02	0.675E-02	-0.383E-02	0.648E-02	-0.306E-02
	100000.	0.217E-01	-0.744E-02	0.744E-02	-0.445E-02	0.652E-02	-0.344E-02
In II 6S-9P 2134.0 Å C=0.27E+17	5000.	0.585E-01	-0.305E-01	*0.896E-02	-0.465E-02		
	10000.	0.502E-01	-0.262E-01	*0.103E-01	-0.599E-02	*0.101E-01	-0.483E-02
	20000.	0.458E-01	-0.231E-01	*0.116E-01	-0.723E-02	*0.106E-01	-0.571E-02
	30000.	0.447E-01	-0.204E-01	0.120E-01	-0.761E-02	*0.111E-01	-0.612E-02
	50000.	0.437E-01	-0.177E-01	0.128E-01	-0.848E-02	*0.116E-01	-0.679E-02
	100000.	0.411E-01	-0.137E-01	0.134E-01	-0.934E-02	*0.124E-01	-0.750E-02
In II 7S-7P 17576.0 Å C=0.72E+19	5000.	1.18	-0.454	0.900E-01	-0.405E-01	0.100E+00	-0.350E-01
	10000.	0.918	-0.411	0.110	-0.553E-01	0.115	-0.452E-01
	20000.	0.767	-0.345	0.128	-0.675E-01	0.130	-0.548E-01
	30000.	0.709	-0.311	0.138	-0.749E-01	0.135	-0.603E-01
	50000.	0.649	-0.277	0.146	-0.831E-01	0.141	-0.672E-01
	100000.	0.583	-0.229	0.160	-0.958E-01	0.146	-0.761E-01
In II 7S-8P 6898.6 Å C=0.56E+18	5000.	0.325	-0.157	0.392E-01	-0.183E-01	*0.410E-01	-0.146E-01
	10000.	0.267	-0.132	0.458E-01	-0.229E-01	*0.467E-01	-0.186E-01
	20000.	0.236	-0.117	0.518E-01	-0.277E-01	0.509E-01	-0.225E-01
	30000.	0.224	-0.106	0.543E-01	-0.304E-01	0.525E-01	-0.243E-01
	50000.	0.213	-0.910E-01	0.582E-01	-0.342E-01	0.555E-01	-0.274E-01
	100000.	0.199	-0.732E-01	0.627E-01	-0.384E-01	0.542E-01	-0.297E-01
In II 7S-9P 5170.4 Å C=0.16E+18	5000.	0.352	-0.186	*0.529E-01	-0.276E-01		
	10000.	0.304	-0.161	*0.609E-01	-0.356E-01	*0.589E-01	-0.285E-01
	20000.	0.278	-0.143	*0.682E-01	-0.426E-01	*0.622E-01	-0.336E-01
	30000.	0.272	-0.128	0.706E-01	-0.451E-01	*0.653E-01	-0.362E-01
	50000.	0.266	-0.111	0.758E-01	-0.502E-01	*0.684E-01	-0.402E-01
	100000.	0.250	-0.862E-01	0.782E-01	-0.550E-01	*0.728E-01	-0.443E-01
In II 8S-8P 34896.3 Å C=0.14E+20	5000.	9.80	-4.18	1.04	-0.542	*1.07	-0.433
	10000.	8.28	-3.86	1.22	-0.679	*1.23	-0.554
	20000.	7.36	-3.58	1.39	-0.824	1.33	-0.659
	30000.	6.98	-3.30	1.49	-0.899	1.39	-0.721
	50000.	6.63	-2.91	1.56	-0.987	1.43	-0.781
	100000.	6.18	-2.43	1.71	-1.12	1.58	-0.918
In II 8S-9P 12968.6 Å C=0.98E+18	5000.	2.38	-1.20	*0.335	-0.181		
	10000.	2.09	-1.13	*0.387	-0.230	*0.374	-0.185
	20000.	1.92	-0.980	*0.437	-0.277	*0.398	-0.218
	30000.	1.87	-0.888	0.453	-0.296	*0.412	-0.237
	50000.	1.83	-0.793	0.475	-0.325	*0.443	-0.265
	100000.	1.72	-0.621	0.497	-0.363	*0.464	-0.292

PERTURBERS ARE: TRANSITION	T(K)	ELECTRONS		PROTONS		IONIZED HELIUM	
		WIDTH (Å)	SHIFT (Å)	WIDTH (Å)	SHIFT (Å)	WIDTH (Å)	SHIFT (Å)
In II 5P-6S 2027.9 Å C=0.58E+18	5000.	0.219E-02	0.104E-02	0.140E-04	0.286E-04	0.225E-04	0.275E-04
	10000.	0.156E-02	0.768E-03	0.354E-04	0.503E-04	0.463E-04	0.458E-04
	20000.	0.109E-02	0.597E-03	0.658E-04	0.737E-04	0.730E-04	0.640E-04
	30000.	0.893E-03	0.500E-03	0.888E-04	0.889E-04	0.881E-04	0.735E-04
	50000.	0.745E-03	0.425E-03	0.111E-03	0.102E-03	0.104E-03	0.843E-04
	100000.	0.614E-03	0.345E-03	0.141E-03	0.123E-03	0.127E-03	0.101E-03
In II 5P-7S 1301.5 Å C=0.96E+17	5000.	0.238E-02	0.133E-02	0.362E-04	0.772E-04	0.428E-04	0.677E-04
	10000.	0.163E-02	0.107E-02	0.773E-04	0.112E-03	0.760E-04	0.959E-04
	20000.	0.120E-02	0.825E-03	0.130E-03	0.143E-03	0.113E-03	0.117E-03
	30000.	0.110E-02	0.745E-03	0.154E-03	0.160E-03	0.131E-03	0.131E-03
	50000.	0.970E-03	0.637E-03	0.183E-03	0.182E-03	0.156E-03	0.148E-03
	100000.	0.830E-03	0.509E-03	0.231E-03	0.210E-03	0.186E-03	0.171E-03
In II 5P-8S 1130.4 Å C=0.37E+17	5000.	0.399E-02	0.198E-02	0.133E-03	0.200E-03	0.131E-03	0.171E-03
	10000.	0.279E-02	0.185E-02	0.238E-03	0.265E-03	0.205E-03	0.217E-03
	20000.	0.233E-02	0.152E-02	0.316E-03	0.323E-03	0.264E-03	0.264E-03
	30000.	0.210E-02	0.143E-02	0.358E-03	0.358E-03	0.301E-03	0.290E-03
	50000.	0.189E-02	0.124E-02	0.423E-03	0.400E-03	0.354E-03	0.324E-03
	100000.	0.170E-02	0.985E-03	0.511E-03	0.460E-03	0.417E-03	0.376E-03
In II 5P-9S 1057.9 Å C=0.18E+17	5000.	0.656E-02	0.343E-02	0.392E-03	0.449E-03	0.349E-03	0.359E-03
	10000.	0.487E-02	0.328E-02	0.550E-03	0.562E-03	0.464E-03	0.456E-03
	20000.	0.422E-02	0.282E-02	0.695E-03	0.684E-03	0.582E-03	0.555E-03
	30000.	0.398E-02	0.256E-02	0.792E-03	0.743E-03	0.653E-03	0.604E-03
	50000.	0.364E-02	0.229E-02	0.918E-03	0.834E-03	0.748E-03	0.667E-03
	100000.	0.340E-02	0.185E-02	0.104E-02	0.936E-03	0.785E-03	0.733E-03
In II 6P-7S 7522.4 Å C=0.32E+19	5000.	0.129	0.469E-01	0.394E-02	0.319E-02	0.466E-02	0.274E-02
	10000.	0.952E-01	0.421E-01	0.603E-02	0.456E-02	0.637E-02	0.387E-02
	20000.	0.723E-01	0.364E-01	0.777E-02	0.575E-02	0.754E-02	0.471E-02
	30000.	0.651E-01	0.315E-01	0.863E-02	0.638E-02	0.829E-02	0.523E-02
	50000.	0.570E-01	0.284E-01	0.974E-02	0.725E-02	0.912E-02	0.589E-02
	100000.	0.484E-01	0.230E-01	0.114E-01	0.842E-02	0.986E-02	0.670E-02
In II 6P-8S 4012.3 Å C=0.46E+18	5000.	0.599E-01	0.261E-01	0.216E-02	0.264E-02	0.226E-02	0.225E-02
	10000.	0.442E-01	0.253E-01	0.347E-02	0.347E-02	0.315E-02	0.285E-02
	20000.	0.365E-01	0.211E-01	0.449E-02	0.424E-02	0.388E-02	0.346E-02
	30000.	0.337E-01	0.190E-01	0.514E-02	0.474E-02	0.443E-02	0.382E-02
	50000.	0.301E-01	0.175E-01	0.596E-02	0.529E-02	0.492E-02	0.419E-02
	100000.	0.270E-01	0.141E-01	0.691E-02	0.597E-02	0.589E-02	0.481E-02
In II 6P-9S 3227.0 Å C=0.17E+18	5000.	0.665E-01	0.325E-01	0.383E-02	0.423E-02	0.343E-02	0.337E-02
	10000.	0.501E-01	0.315E-01	0.529E-02	0.528E-02	0.449E-02	0.428E-02
	20000.	0.431E-01	0.271E-01	0.669E-02	0.641E-02	0.565E-02	0.523E-02
	30000.	0.407E-01	0.248E-01	0.750E-02	0.699E-02	0.632E-02	0.566E-02
	50000.	0.375E-01	0.225E-01	0.874E-02	0.785E-02	0.724E-02	0.626E-02
	100000.	0.351E-01	0.183E-01	0.101E-01	0.883E-02	0.753E-02	0.704E-02
In II 7P-8S 16834.0 Å C=0.66E+19	5000.	1.48	0.571	0.945E-01	0.635E-01	0.988E-01	0.533E-01
	10000.	1.19	0.525	0.119	0.818E-01	0.117	0.667E-01
	20000.	1.01	0.497	0.141	0.993E-01	0.134	0.806E-01
	30000.	0.929	0.454	0.154	0.109	0.143	0.890E-01
	50000.	0.857	0.404	0.170	0.122	0.151	0.980E-01
	100000.	0.780	0.341	0.186	0.138	0.170	0.113
In II 7P-9S 8329.9 Å C=0.11E+19	5000.	0.540	0.218	0.349E-01	0.310E-01	0.324E-01	0.247E-01
	10000.	0.438	0.225	0.445E-01	0.388E-01	0.402E-01	0.317E-01
	20000.	0.375	0.211	0.551E-01	0.470E-01	0.471E-01	0.377E-01
	30000.	0.353	0.193	0.618E-01	0.513E-01	0.518E-01	0.413E-01
	50000.	0.333	0.172	0.676E-01	0.564E-01	0.566E-01	0.447E-01
	100000.	0.310	0.144	0.767E-01	0.642E-01	0.628E-01	0.528E-01
In II 8P-9S 31260.1 Å C=0.12E+20	5000.	10.2	3.97	0.935	0.598	*0.928	*0.485
	10000.	8.74	4.02	1.12	0.760	*1.09	*0.614
	20000.	7.87	4.04	1.31	0.925	*1.19	*0.734
	30000.	7.48	3.72	1.39	0.999	1.29	0.805
	50000.	7.10	3.24	1.54	1.12	1.33	0.867
	100000.	6.69	2.80	1.65	1.21	1.43	0.967

STARK BROADENING PARAMETER TABLES FOR In II

PERTURBERS ARE: TRANSITION	T(K)	ELECTRONS		PROTONS		IONIZED HELIUM	
		WIDTH (Å)	SHIFT (Å)	WIDTH (Å)	SHIFT (Å)	WIDTH (Å)	SHIFT (Å)
In II 5P-5D 1735.8 Å C=0.18E+18	5000.	0.220E-02	0.192E-03	0.841E-04	0.263E-04	0.118E-03	0.251E-04
	10000.	0.158E-02	0.169E-03	0.135E-03	0.455E-04	0.167E-03	0.406E-04
	20000.	0.117E-02	0.142E-03	0.184E-03	0.656E-04	0.198E-03	0.564E-04
	30000.	0.101E-02	0.142E-03	0.200E-03	0.778E-04	0.213E-03	0.633E-04
	50000.	0.853E-03	0.133E-03	0.221E-03	0.894E-04	0.231E-03	0.727E-04
	100000.	0.701E-03	0.119E-03	0.248E-03	0.106E-03	0.247E-03	0.867E-04
In II 5P-6D 1247.1 Å C=0.18E+17	5000.	0.408E-02	-0.174E-03	0.273E-03	-0.153E-03	0.322E-03	-0.133E-03
	10000.	0.341E-02	-0.241E-03	0.365E-03	-0.215E-03	0.379E-03	-0.174E-03
	20000.	0.308E-02	-0.180E-03	0.431E-03	-0.261E-03	0.433E-03	-0.213E-03
	30000.	0.295E-02	-0.187E-03	0.474E-03	-0.289E-03	0.461E-03	-0.236E-03
	50000.	0.281E-02	-0.172E-03	0.521E-03	-0.328E-03	0.494E-03	-0.265E-03
	100000.	0.257E-02	-0.135E-03	0.572E-03	-0.376E-03	0.522E-03	-0.300E-03
In II 5P-7D 1109.4 Å C=0.99E+16	5000.	0.590E-02	-0.371E-03	0.676E-03	-0.282E-03	0.716E-03	-0.236E-03
	10000.	0.540E-02	-0.459E-03	0.783E-03	-0.363E-03	0.813E-03	-0.295E-03
	20000.	0.531E-02	-0.390E-03	0.894E-03	-0.440E-03	0.886E-03	-0.357E-03
	30000.	0.533E-02	-0.359E-03	0.947E-03	-0.485E-03	0.918E-03	-0.390E-03
	50000.	0.533E-02	-0.354E-03	0.100E-02	-0.534E-03	0.963E-03	-0.440E-03
	100000.	0.510E-02	-0.257E-03	0.106E-02	-0.608E-03	0.994E-03	-0.498E-03
In II 5P-8D 1046.2 Å C=0.64E+16	5000.	0.889E-02	-0.266E-03	*0.134E-02	-0.126E-03	*0.144E-02	-0.109E-03
	10000.	0.887E-02	-0.348E-03	0.151E-02	-0.175E-03	*0.159E-02	-0.142E-03
	20000.	0.937E-02	-0.297E-03	0.162E-02	-0.213E-03	*0.166E-02	-0.173E-03
	30000.	0.970E-02	-0.284E-03	0.166E-02	-0.235E-03	*0.169E-02	-0.192E-03
	50000.	0.994E-02	-0.272E-03	0.170E-02	-0.268E-03	0.171E-02	-0.215E-03
	100000.	0.972E-02	-0.232E-03	0.174E-02	-0.302E-03	0.173E-02	-0.242E-03
In II 5P-9D 1013.2 Å C=0.38E+16	5000.	0.614E-02	-0.195E-02	*0.255E-02	-0.812E-03		
	10000.	0.464E-02	-0.164E-02	*0.284E-02	-0.103E-02		
	20000.	0.379E-02	-0.134E-02	*0.306E-02	-0.124E-02	*0.300E-02	-0.100E-02
	30000.	0.348E-02	-0.126E-02	*0.309E-02	-0.133E-02	*0.305E-02	-0.107E-02
	50000.	0.320E-02	-0.109E-02	0.326E-02	-0.148E-02	*0.314E-02	-0.119E-02
	100000.	0.296E-02	-0.835E-03	0.348E-02	-0.169E-02	*0.319E-02	-0.140E-02
In II 6P-6D 6007.5 Å C=0.41E+18	5000.	0.118	0.577E-02	0.742E-02	-0.324E-02	0.867E-02	-0.281E-02
	10000.	0.971E-01	0.228E-02	0.948E-02	-0.459E-02	0.999E-02	-0.373E-02
	20000.	0.859E-01	0.173E-02	0.110E-01	-0.556E-02	0.113E-01	-0.456E-02
	30000.	0.814E-01	0.127E-02	0.120E-01	-0.618E-02	0.120E-01	-0.502E-02
	50000.	0.766E-01	0.758E-03	0.130E-01	-0.705E-02	0.126E-01	-0.564E-02
	100000.	0.696E-01	0.588E-03	0.140E-01	-0.801E-02	0.131E-01	-0.650E-02
In II 6P-7D 3758.7 Å C=0.11E+18	5000.	0.750E-01	-0.127E-02	0.804E-02	-0.314E-02	*0.855E-02	-0.264E-02
	10000.	0.678E-01	-0.257E-02	0.931E-02	-0.405E-02	0.969E-02	-0.330E-02
	20000.	0.658E-01	-0.232E-02	0.105E-01	-0.491E-02	0.105E-01	-0.399E-02
	30000.	0.657E-01	-0.214E-02	0.111E-01	-0.540E-02	0.108E-01	-0.441E-02
	50000.	0.651E-01	-0.231E-02	0.117E-01	-0.603E-02	0.114E-01	-0.482E-02
	100000.	0.621E-01	-0.151E-02	0.124E-01	-0.685E-02	0.118E-01	-0.562E-02
In II 6P-8D 3120.2 Å C=0.57E+17	5000.	0.833E-01	-0.186E-02	*0.121E-01	-0.104E-02	*0.130E-01	-0.906E-03
	10000.	0.824E-01	-0.199E-02	0.136E-01	-0.146E-02	*0.143E-01	-0.118E-02
	20000.	0.863E-01	-0.167E-02	0.146E-01	-0.177E-02	*0.150E-01	-0.144E-02
	30000.	0.890E-01	-0.156E-02	0.150E-01	-0.197E-02	*0.152E-01	-0.160E-02
	50000.	0.910E-01	-0.147E-02	0.154E-01	-0.221E-02	0.155E-01	-0.176E-02
	100000.	0.887E-01	-0.124E-02	0.157E-01	-0.257E-02	0.155E-01	-0.206E-02
In II 6P-9D 2844.1 Å C=0.30E+17	5000.	0.519E-01	-0.161E-01	*0.202E-01	-0.637E-02		
	10000.	0.394E-01	-0.130E-01	*0.225E-01	-0.804E-02		
	20000.	0.323E-01	-0.104E-01	*0.243E-01	-0.974E-02	*0.238E-01	-0.783E-02
	30000.	0.297E-01	-0.959E-02	*0.245E-01	-0.104E-01	*0.242E-01	-0.838E-02
	50000.	0.273E-01	-0.809E-02	0.259E-01	-0.115E-01	*0.249E-01	-0.935E-02
	100000.	0.252E-01	-0.591E-02	0.275E-01	-0.133E-01	*0.252E-01	-0.110E-01
In II 7P-7D 13120.9 Å C=0.14E+19	5000.	1.12	0.882E-01	0.115	-0.278E-01	*0.123	-0.238E-01
	10000.	0.996	0.613E-01	0.131	-0.367E-01	0.139	-0.302E-01
	20000.	0.963	0.621E-01	0.145	-0.450E-01	0.148	-0.365E-01
	30000.	0.958	0.550E-01	0.151	-0.502E-01	0.152	-0.405E-01
	50000.	0.946	0.419E-01	0.156	-0.560E-01	0.155	-0.444E-01
	100000.	0.901	0.389E-01	0.167	-0.633E-01	0.157	-0.513E-01

PERTURBERS ARE: TRANSITION	T(K)	ELECTRONS		PROTONS		IONIZED HELIUM	
		WIDTH (Å)	SHIFT (Å)	WIDTH (Å)	SHIFT (Å)	WIDTH (Å)	SHIFT (Å)
In II 7P-8D 7653.3 Å C=0.34E+18	5000.	0.547	0.368E-01	*0.778E-01	-0.127E-02	*0.833E-01	-0.117E-02
	10000.	0.538	0.235E-01	0.872E-01	-0.197E-02	*0.916E-01	-0.172E-02
	20000.	0.564	0.202E-01	0.931E-01	-0.273E-02	*0.956E-01	-0.222E-02
	30000.	0.581	0.178E-01	0.952E-01	-0.303E-02	*0.971E-01	-0.248E-02
	50000.	0.594	0.145E-01	0.970E-01	-0.347E-02	0.983E-01	-0.285E-02
	100000.	0.579	0.118E-01	0.101	-0.412E-02	0.989E-01	-0.333E-02
In II 7P-9D 6181.7 Å C=0.14E+18	5000.	0.273	-0.575E-01	*0.974E-01	-0.290E-01		
	10000.	0.213	-0.399E-01	*0.108	-0.366E-01		
	20000.	0.180	-0.310E-01	*0.115	-0.440E-01	*0.114	-0.353E-01
	30000.	0.169	-0.290E-01	*0.118	-0.482E-01	*0.116	-0.386E-01
	50000.	0.158	-0.221E-01	0.122	-0.525E-01	*0.118	-0.430E-01
	100000.	0.148	-0.153E-01	0.131	-0.610E-01	*0.123	-0.503E-01
In II 8P-8D 23473.1 Å C=0.32E+19	5000.	6.36	1.39	*0.889	*0.169	*0.949	*0.137
	10000.	6.18	1.11	*0.999	*0.212	*1.04	*0.173
	20000.	6.41	0.917	1.06	0.257	*1.07	*0.211
	30000.	6.58	0.815	1.09	0.286	*1.09	*0.227
	50000.	6.71	0.688	1.12	0.316	*1.11	*0.252
	100000.	6.54	0.551	1.17	0.356	1.11	0.288
In II 8P-9D 13567.2 Å C=0.69E+18	5000.	1.62	0.222E-01	*0.502	-0.111		
	10000.	1.35	0.675E-01	*0.557	-0.141		
	20000.	1.21	0.763E-01	*0.581	-0.170	*0.587	-0.136
	30000.	1.16	0.731E-01	*0.594	-0.184	*0.593	-0.150
	50000.	1.12	0.760E-01	0.608	-0.207	*0.610	-0.160
	100000.	1.06	0.722E-01	0.639	-0.227	*0.624	-0.178
In II 9P-9D 39597.7 Å C=0.59E+19	5000.	21.3	6.95	5.12	*0.749		
	10000.	18.9	6.03	5.60	*0.945		
	20000.	17.8	5.46	5.86	*1.14		
	30000.	17.5	4.76	5.95	*1.23	*5.99	*1.00
	50000.	17.3	4.17	6.09	*1.37	*6.08	*1.09
	100000.	16.5	3.26	6.16	1.56	*6.20	*1.27
In II 5D-6P 16865.4 Å C=0.17E+20	5000.	0.435	-0.117	0.224E-01	-0.644E-02	0.281E-01	-0.593E-02
	10000.	0.322	-0.915E-01	0.319E-01	-0.998E-02	0.355E-01	-0.871E-02
	20000.	0.246	-0.694E-01	0.379E-01	-0.138E-01	0.404E-01	-0.112E-01
	30000.	0.217	-0.619E-01	0.410E-01	-0.153E-01	0.431E-01	-0.126E-01
	50000.	0.187	-0.532E-01	0.447E-01	-0.175E-01	0.458E-01	-0.142E-01
	100000.	0.158	-0.424E-01	0.482E-01	-0.207E-01	0.476E-01	-0.167E-01
In II 5D-7P 4014.0 Å C=0.38E+18	5000.	0.522E-01	-0.206E-01	0.483E-02	-0.173E-02	0.539E-02	-0.151E-02
	10000.	0.398E-01	-0.158E-01	0.583E-02	-0.243E-02	0.617E-02	-0.197E-02
	20000.	0.331E-01	-0.128E-01	0.667E-02	-0.295E-02	0.689E-02	-0.240E-02
	30000.	0.305E-01	-0.114E-01	0.715E-02	-0.327E-02	0.715E-02	-0.266E-02
	50000.	0.279E-01	-0.971E-02	0.754E-02	-0.368E-02	0.746E-02	-0.293E-02
	100000.	0.251E-01	-0.782E-02	0.822E-02	-0.427E-02	0.773E-02	-0.343E-02
In II 5D-8P 2965.7 Å C=0.10E+18	5000.	0.568E-01	-0.261E-01	0.730E-02	-0.325E-02	*0.767E-02	-0.260E-02
	10000.	0.461E-01	-0.217E-01	0.849E-02	-0.407E-02	*0.874E-02	-0.330E-02
	20000.	0.405E-01	-0.186E-01	0.955E-02	-0.492E-02	0.941E-02	-0.398E-02
	30000.	0.382E-01	-0.167E-01	0.101E-01	-0.544E-02	0.969E-02	-0.433E-02
	50000.	0.364E-01	-0.141E-01	0.106E-01	-0.596E-02	0.102E-01	-0.476E-02
	100000.	0.339E-01	-0.113E-01	0.117E-01	-0.691E-02	0.102E-01	-0.535E-02
In II 5D-9P 2593.1 Å C=0.39E+17	5000.	0.869E-01	-0.451E-01	*0.133E-01	-0.687E-02		
	10000.	0.746E-01	-0.387E-01	*0.153E-01	-0.886E-02	*0.149E-01	-0.713E-02
	20000.	0.681E-01	-0.342E-01	*0.171E-01	-0.107E-01	*0.157E-01	-0.843E-02
	30000.	0.664E-01	-0.301E-01	0.178E-01	-0.112E-01	*0.165E-01	-0.904E-02
	50000.	0.648E-01	-0.260E-01	0.190E-01	-0.125E-01	*0.172E-01	-0.100E-01
	100000.	0.609E-01	-0.201E-01	0.199E-01	-0.138E-01	*0.184E-01	-0.111E-01
In II 6D-7P 42784.6 Å C=0.21E+20	5000.	8.55	-1.60	0.683	-0.183E-01	0.752	-0.173E-01
	10000.	6.99	-1.27	0.793	-0.314E-01	0.853	-0.276E-01
	20000.	6.29	-1.05	0.887	-0.446E-01	0.935	-0.382E-01
	30000.	6.00	-0.939	0.932	-0.525E-01	0.959	-0.425E-01
	50000.	5.68	-0.789	0.964	-0.598E-01	0.980	-0.488E-01
	100000.	5.22	-0.638	1.00	-0.717E-01	1.01	-0.577E-01

STARK BROADENING PARAMETER TABLES FOR In II

PERTURBERS ARE: TRANSITION	T(K)	ELECTRONS		PROTONS		IONIZED HELIUM	
		WIDTH (Å)	SHIFT (Å)	WIDTH (Å)	SHIFT (Å)	WIDTH (Å)	SHIFT (Å)
In II 6D-8P 8974.0 Å C=0.92E+18	5000.	0.608	-0.214	0.696E-01	-0.256E-01	*0.742E-01	-0.207E-01
	10000.	0.514	-0.185	0.800E-01	-0.321E-01	*0.834E-01	-0.261E-01
	20000.	0.469	-0.153	0.888E-01	-0.391E-01	0.889E-01	-0.318E-01
	30000.	0.454	-0.136	0.934E-01	-0.432E-01	0.910E-01	-0.349E-01
	50000.	0.438	-0.116	0.967E-01	-0.478E-01	0.934E-01	-0.381E-01
	100000.	0.411	-0.923E-01	0.101	-0.535E-01	0.988E-01	-0.430E-01
In II 6D-9P 6254.5 Å C=0.23E+18	5000.	0.543	-0.253	*0.776E-01	-0.390E-01	*0.878E-01	-0.404E-01
	10000.	0.475	-0.217	*0.898E-01	-0.496E-01	*0.878E-01	-0.404E-01
	20000.	0.441	-0.190	*0.100	-0.603E-01	*0.932E-01	-0.474E-01
	30000.	0.434	-0.167	0.106	-0.647E-01	*0.971E-01	-0.513E-01
	50000.	0.426	-0.144	0.111	-0.710E-01	*0.102	-0.578E-01
	100000.	0.402	-0.111	0.117	-0.783E-01	*0.110	-0.642E-01
In II 7D-9P 16584.0 Å C=0.16E+19	5000.	4.15	-1.71	*0.571	-0.261	*0.645	-0.266
	10000.	3.75	-1.46	*0.661	-0.334	*0.681	-0.322
	20000.	3.61	-1.27	*0.708	-0.394	*0.712	-0.349
	30000.	3.61	-1.12	0.762	-0.438	*0.729	-0.380
	50000.	3.59	-0.964	0.791	-0.467	*0.777	-0.435
	100000.	3.43	-0.748	0.840	-0.520		
In II 5D-5F 3151.5 Å C=0.57E+17	5000.	0.692E-01	0.388E-01	0.756E-02	0.651E-02	*0.703E-02	*0.525E-02
	10000.	0.607E-01	0.321E-01	0.962E-02	0.829E-02	*0.869E-02	*0.675E-02
	20000.	0.559E-01	0.257E-01	0.121E-01	0.101E-01	0.102E-01	0.805E-02
	30000.	0.544E-01	0.224E-01	0.130E-01	0.108E-01	0.109E-01	0.861E-02
	50000.	0.528E-01	0.193E-01	0.149E-01	0.119E-01	0.120E-01	0.948E-02
	100000.	0.489E-01	0.148E-01	0.158E-01	0.137E-01	0.127E-01	0.105E-01
In II 5D-6F 2678.2 Å C=0.26E+17	5000.	0.102	0.598E-01	*0.135E-01	*0.104E-01	*0.120E-01	*0.829E-02
	10000.	0.896E-01	0.506E-01	*0.165E-01	*0.134E-01	*0.143E-01	*0.108E-01
	20000.	0.822E-01	0.427E-01	*0.194E-01	*0.162E-01	*0.163E-01	*0.129E-01
	30000.	0.813E-01	0.378E-01	*0.212E-01	*0.177E-01	*0.176E-01	*0.136E-01
	50000.	0.795E-01	0.320E-01	0.229E-01	0.190E-01	*0.195E-01	*0.158E-01
	100000.	0.742E-01	0.243E-01	0.268E-01	0.216E-01	*0.218E-01	*0.177E-01
In II 5D-7F 2456.1 Å C=0.15E+17	5000.	0.160	0.989E-01				
	10000.	0.143	0.852E-01	*0.294E-01	*0.233E-01		
	20000.	0.138	0.739E-01	*0.354E-01	*0.284E-01		
	30000.	0.137	0.657E-01	*0.369E-01	*0.306E-01		
	50000.	0.134	0.549E-01	*0.406E-01	*0.323E-01		
	100000.	0.125	0.416E-01	*0.421E-01	*0.381E-01	*0.390E-01	*0.291E-01
In II 5D-8F 2678.2 Å C=0.26E+17	5000.	0.102	0.599E-01	*0.135E-01	*0.104E-01	*0.120E-01	*0.830E-02
	10000.	0.897E-01	0.507E-01	*0.165E-01	*0.134E-01	*0.144E-01	*0.108E-01
	20000.	0.822E-01	0.429E-01	*0.194E-01	*0.162E-01	*0.164E-01	*0.129E-01
	30000.	0.813E-01	0.380E-01	*0.212E-01	*0.177E-01	*0.176E-01	*0.136E-01
	50000.	0.796E-01	0.322E-01	0.229E-01	0.190E-01	*0.195E-01	*0.158E-01
	100000.	0.743E-01	0.245E-01	0.268E-01	0.216E-01	*0.218E-01	*0.177E-01
In II 5D-9F 2252.3 Å C=0.68E+16	5000.	*0.375	*0.232				
	10000.	0.336	0.205				
	20000.	0.337	0.174				
	30000.	0.338	0.163				
	50000.	0.328	0.134				
	100000.	0.308	0.104				
In II 6D-6F 6773.6 Å C=0.17E+18	5000.	0.724	0.395	*0.873E-01	*0.676E-01	*0.801E-01	*0.543E-01
	10000.	0.640	0.334	*0.107	*0.872E-01	*0.946E-01	*0.704E-01
	20000.	0.592	0.284	*0.129	*0.106	*0.108	*0.843E-01
	30000.	0.584	0.252	*0.141	*0.115	*0.115	*0.894E-01
	50000.	0.571	0.213	0.149	0.124	*0.128	*0.102
	100000.	0.533	0.162	0.178	0.143	*0.144	*0.113
In II 6D-7F 5512.6 Å C=0.76E+17	5000.	0.856	0.506				
	10000.	0.765	0.436	*0.148	*0.118		
	20000.	0.738	0.379	*0.180	*0.143		
	30000.	0.734	0.337	*0.190	*0.155		
	50000.	0.715	0.282	*0.204	*0.164		
	100000.	0.669	0.214	*0.215	*0.193	*0.196	*0.148

PERTURBERS ARE: TRANSITION	T(K)	ELECTRONS		PROTONS		IONIZED HELIUM	
		WIDTH (Å)	SHIFT (Å)	WIDTH (Å)	SHIFT (Å)	WIDTH (Å)	SHIFT (Å)
In II 6D-8F 4919.5 Å C=0.43E+17	5000.	1.14	0.651				
	10000.	1.02	0.610				
	20000.	1.01	0.511				
	30000.	1.01	0.477				
	50000.	0.982	0.395				
100000.	0.920	0.303	*0.324	*0.261			
In II 6D-9F 4582.3 Å C=0.28E+17	5000.	*1.55	*0.965				
	10000.	1.42	0.854				
	20000.	1.42	0.724				
	30000.	1.43	0.676				
	50000.	1.39	0.559				
100000.	1.30	0.432					
In II 7D-7F 12222.4 Å C=0.37E+18	5000.	4.47	2.52				
	10000.	4.03	2.18				
	20000.	3.93	1.90	*0.893	*0.704		
	30000.	3.92	1.68	*0.950	*0.766		
	50000.	3.85	1.41	*1.02	*0.820		
100000.	3.62	1.07	*1.08	*0.964	*0.991	*0.732	
In II 7D-8F 9644.5 Å C=0.17E+18	5000.	4.53	2.51				
	10000.	4.10	2.37				
	20000.	4.07	1.98				
	30000.	4.08	1.85				
	50000.	3.98	1.53				
100000.	3.74	1.18	*1.25	*1.01			
In II 7D-9F 8428.5 Å C=0.95E+17	5000.	*5.34	*3.28				
	10000.	4.94	2.90				
	20000.	4.95	2.46				
	30000.	4.98	2.30				
	50000.	4.84	1.90				
100000.	4.55	1.47					
In II 8D-8F 20309.5 Å C=0.74E+18	5000.	20.9	11.1				
	10000.	19.3	10.5				
	20000.	19.5	8.77				
	30000.	19.7	8.20				
	50000.	19.4	6.79				
100000.	18.3	5.22	*5.58	*4.46			
In II 8D-9F 15577.1 Å C=0.32E+18	5000.	*18.7	*11.2				
	10000.	*17.5	*9.90				
	20000.	17.7	8.41				
	30000.	17.9	7.74				
	50000.	17.5	6.50				
100000.	16.6	5.03					
In II 5D-4F 4665.5 Å C=0.25E+18	5000.	0.546E-01	0.424E-02	0.326E-02	0.226E-02	0.385E-02	0.197E-02
	10000.	0.432E-01	0.464E-02	0.461E-02	0.318E-02	0.468E-02	0.257E-02
	20000.	0.357E-01	0.452E-02	0.555E-02	0.386E-02	0.545E-02	0.315E-02
	30000.	0.322E-01	0.428E-02	0.612E-02	0.427E-02	0.586E-02	0.347E-02
	50000.	0.283E-01	0.403E-02	0.689E-02	0.482E-02	0.625E-02	0.385E-02
100000.	0.240E-01	0.351E-02	0.787E-02	0.563E-02	0.707E-02	0.452E-02	
In II 4F-7D 9009.2 Å C=0.65E+18	5000.	0.501	-0.649E-01	0.497E-01	-0.238E-01	*0.522E-01	-0.195E-01
	10000.	0.453	-0.580E-01	0.582E-01	-0.300E-01	0.596E-01	-0.245E-01
	20000.	0.435	-0.508E-01	0.669E-01	-0.366E-01	0.654E-01	-0.296E-01
	30000.	0.430	-0.453E-01	0.701E-01	-0.400E-01	0.671E-01	-0.319E-01
	50000.	0.422	-0.426E-01	0.751E-01	-0.446E-01	0.707E-01	-0.355E-01
100000.	0.397	-0.335E-01	0.821E-01	-0.495E-01	0.743E-01	-0.407E-01	
In II 4F-8D 6044.3 Å C=0.21E+18	5000.	0.349	-0.373E-01	*0.463E-01	-0.707E-02	*0.496E-01	-0.601E-02
	10000.	0.341	-0.315E-01	0.520E-01	-0.921E-02	*0.546E-01	-0.753E-02
	20000.	0.351	-0.256E-01	0.558E-01	-0.112E-01	*0.571E-01	-0.915E-02
	30000.	0.359	-0.223E-01	0.572E-01	-0.124E-01	*0.579E-01	-0.101E-01
	50000.	0.363	-0.194E-01	0.590E-01	-0.138E-01	0.585E-01	-0.110E-01
100000.	0.351	-0.161E-01	0.618E-01	-0.156E-01	0.599E-01	-0.125E-01	

STARK BROADENING PARAMETER TABLES FOR In II

PERTURBERS ARE: TRANSITION	T(K)	ELECTRONS		PROTONS		IONIZED HELIUM	
		WIDTH (Å)	SHIFT (Å)	WIDTH (Å)	SHIFT (Å)	WIDTH (Å)	SHIFT (Å)
In II 4F-9D 5087.8 Å C=0.97E+17	5000.	0.190	-0.698E-01	*0.654E-01	-0.214E-01		
	10000.	0.147	-0.565E-01	*0.733E-01	-0.272E-01		
	20000.	0.122	-0.462E-01	*0.780E-01	-0.328E-01	*0.774E-01	-0.260E-01
	30000.	0.112	-0.418E-01	*0.794E-01	-0.351E-01	*0.787E-01	-0.285E-01
	50000.	0.103	-0.355E-01	0.845E-01	-0.396E-01	*0.795E-01	-0.314E-01
	100000.	0.934E-01	-0.270E-01	0.898E-01	-0.448E-01	*0.817E-01	-0.358E-01
In II 5F-6D 10922.3 Å C=0.68E+18	5000.	1.03	-0.509	0.100	-0.830E-01	*0.933E-01	-0.665E-01
	10000.	0.912	-0.422	0.125	-0.105	*0.112	-0.850E-01
	20000.	0.843	-0.338	0.152	-0.126	0.133	-0.102
	30000.	0.821	-0.295	0.166	-0.138	0.139	-0.109
	50000.	0.799	-0.252	0.186	-0.149	0.149	-0.121
	100000.	0.742	-0.194	0.207	-0.176	0.157	-0.135
In II 5F-8D 16005.4 Å C=0.15E+19	5000.	3.51	-1.17	*0.387	-0.180	*0.400	-0.144
	10000.	3.38	-0.975	*0.448	-0.230	*0.445	-0.185
	20000.	3.42	-0.787	0.490	-0.273	*0.474	-0.220
	30000.	3.48	-0.687	0.518	-0.299	*0.491	-0.237
	50000.	3.52	-0.589	0.545	-0.324	*0.513	-0.263
	100000.	3.38	-0.456	0.603	-0.380	0.519	-0.295
In II 5F-9D 10685.6 Å C=0.43E+18	5000.	1.31	-0.725	*0.313	-0.132		
	10000.	1.08	-0.594	*0.352	-0.171		
	20000.	0.957	-0.480	*0.380	-0.203	*0.372	-0.165
	30000.	0.919	-0.424	*0.399	-0.220	*0.377	-0.174
	50000.	0.880	-0.359	0.427	-0.247	*0.384	-0.193
	100000.	0.818	-0.274	0.452	-0.285	*0.409	-0.216
In II 6F-7D 20813.4 Å C=0.16E+19	5000.	7.57	-3.83	*0.882	-0.661		
	10000.	6.83	-3.25	*1.08	-0.853	*0.958	-0.677
	20000.	6.47	-2.78	*1.29	-1.01	*1.08	-0.810
	30000.	6.45	-2.46	*1.40	-1.10	*1.15	-0.867
	50000.	6.38	-2.10	1.49	-1.21	*1.28	-0.984
	100000.	6.00	-1.59	1.74	-1.34	*1.43	-1.10
In II 6F-9D 26661.7 Å C=0.26E+19	5000.	12.8	-7.36	*2.40	-1.31		
	10000.	10.8	-6.28	*2.73	-1.67		
	20000.	9.88	-5.36	*3.08	-2.03		
	30000.	9.66	-4.77	*3.13	-2.13	*2.94	-1.74
	50000.	9.31	-4.04	*3.51	-2.38	*3.08	-1.87
	100000.	8.67	-3.06	3.71	-2.66	*2.98	-2.05
PERTURBER DENSITY = 1.E+17 cm ⁻³							
SINGLETs							
In II 5S-5P 1586.5 Å C=0.86E+20	5000.	0.690E-01	-0.378E-02	0.127E-02	-0.294E-04	0.207E-02	-0.293E-04
	10000.	0.471E-01	-0.371E-02	0.270E-02	-0.736E-04	0.373E-02	-0.733E-04
	20000.	0.340E-01	-0.209E-02	0.427E-02	-0.157E-03	0.530E-02	-0.152E-03
	30000.	0.284E-01	-0.181E-02	0.522E-02	-0.230E-03	0.589E-02	-0.214E-03
	50000.	0.228E-01	-0.163E-02	0.595E-02	-0.338E-03	0.646E-02	-0.302E-03
	100000.	0.177E-01	-0.128E-02	0.673E-02	-0.484E-03	0.720E-02	-0.416E-03
In II 5S-6P 911.0 Å C=0.34E+19	5000.	0.951E-01	0.338E-01	*0.527E-02	*0.204E-02	*0.609E-02	*0.173E-02
	10000.	0.762E-01	0.257E-01	*0.821E-02	*0.371E-02	*0.888E-02	*0.309E-02
	20000.	0.650E-01	0.193E-01	*0.104E-01	*0.539E-02	*0.107E-01	*0.436E-02
	30000.	0.612E-01	0.171E-01	*0.115E-01	*0.635E-02	*0.116E-01	*0.514E-02
	50000.	0.572E-01	0.147E-01	0.128E-01	0.749E-02	*0.126E-01	*0.608E-02
	100000.	0.520E-01	0.116E-01	0.143E-01	0.881E-02	*0.136E-01	*0.709E-02
In II 5S-7P 783.9 Å C=0.55E+18	5000.	*0.239	-0.920E-01				
	10000.	0.202	-0.785E-01				
	20000.	0.179	-0.637E-01				
	30000.	0.170	-0.566E-01				
	50000.	0.160	-0.496E-01				
	100000.	0.145	-0.400E-01				
In II 5S-8P 734.8 Å C=0.38E+18	5000.						
	10000.	*0.347	-0.158				
	20000.	*0.313	-0.131				
	30000.	0.301	-0.116				
	50000.	0.291	-0.101				
	100000.	0.270	-0.805E-01				

PERTURBERS ARE: TRANSITION	T(K)	ELECTRONS		PROTONS		IONIZED HELIUM	
		WIDTH (Å)	SHIFT (Å)	WIDTH (Å)	SHIFT (Å)	WIDTH (Å)	SHIFT (Å)
In II 5S-9P 710.0 Å C=0.22E+18	5000.						
	10000.						
	20000.	*0.592	-0.249				
	30000.	*0.582	-0.225				
	50000.	*0.566	-0.193				
100000.	*0.530	-0.154					
In II 6S-6P 7843.1 Å C=0.25E+21	5000.	8.49	1.25	*0.382	*0.126	*0.446	*0.110
	10000.	6.78	0.916	*0.592	*0.230	*0.647	*0.194
	20000.	5.72	0.564	*0.743	*0.345	*0.774	*0.275
	30000.	5.30	0.584	0.816	0.405	*0.837	*0.327
	50000.	4.98	0.460	0.901	0.476	*0.905	*0.387
100000.	4.56	0.347	0.998	0.560	*0.958	*0.452	
In II 6S-7P 3274.1 Å C=0.97E+19	5000.	*4.50	-1.75				
	10000.	*3.76	-1.51				
	20000.	3.29	-1.25				
	30000.	3.11	-1.12				
	50000.	2.93	-0.987				
100000.	2.66	-0.802					
In II 6S-8P 2559.7 Å C=0.46E+19	5000.						
	10000.	*4.35	-1.96				
	20000.	*3.90	-1.64				
	30000.	3.75	-1.47				
	50000.	3.62	-1.29				
100000.	3.36	-1.03					
In II 6S-9P 2282.3 Å C=0.23E+19	5000.						
	10000.						
	20000.	*6.19	-2.61				
	30000.	*6.08	-2.37				
	50000.	*5.91	-2.04				
100000.	*5.53	-1.63					
In II 5P-6S 2941.9 Å C=0.11E+21	5000.	0.569	0.243	0.528E-02	0.543E-02	0.802E-02	0.509E-02
	10000.	0.405	0.183	0.123E-01	0.114E-01	0.150E-01	0.998E-02
	20000.	0.287	0.142	0.206E-01	0.179E-01	0.226E-01	0.152E-01
	30000.	0.236	0.119	0.262E-01	0.220E-01	0.255E-01	0.178E-01
	50000.	0.201	0.102	0.313E-01	0.258E-01	0.294E-01	0.210E-01
100000.	0.168	0.828E-01	0.379E-01	0.307E-01	0.347E-01	0.250E-01	
In II 5P-7S 1657.4 Å C=0.12E+20	5000.	0.619	0.282	*0.138E-01	*0.136E-01	*0.129E-01	*0.104E-01
	10000.	0.428	0.247	*0.249E-01	*0.246E-01	*0.237E-01	*0.188E-01
	20000.	0.328	0.202	*0.369E-01	*0.343E-01	*0.316E-01	*0.273E-01
	30000.	0.291	0.193	*0.432E-01	*0.411E-01	*0.362E-01	*0.328E-01
	50000.	0.262	0.165	*0.509E-01	*0.485E-01	*0.424E-01	*0.395E-01
100000.	0.229	0.133	0.630E-01	0.568E-01	*0.506E-01	*0.453E-01	
In II 5P-8S 1418.1 Å C=0.51E+19	5000.	*0.751	*0.342				
	10000.	0.538	0.337				
	20000.	0.448	0.286	*0.627E-01	*0.529E-01		
	30000.	0.418	0.259	*0.718E-01	*0.655E-01		
	50000.	0.372	0.238	*0.833E-01	*0.783E-01		
100000.	0.338	0.192	*0.101	*0.878E-01			
In II 5P-9S 1309.8 Å C=0.25E+19	5000.						
	10000.	*0.937	*0.580				
	20000.	0.800	0.512				
	30000.	0.753	0.468				
	50000.	0.703	0.427				
100000.	0.657	0.353					
In II 6P-7S 7356.9 Å C=0.22E+21	5000.	11.3	4.55	*0.374	*0.195	*0.420	*0.153
	10000.	8.98	3.59	*0.600	*0.346	*0.616	*0.280
	20000.	7.88	2.81	*0.778	*0.491	*0.751	*0.393
	30000.	7.68	2.52	*0.859	*0.581	*0.832	*0.471
	50000.	7.48	2.15	*0.968	*0.687	*0.913	*0.557
100000.	7.12	1.73	1.12	0.801	*0.981	*0.636	

STARK BROADENING PARAMETER TABLES FOR In II

PERTURBERS ARE: TRANSITION	T(K)	ELECTRONS		PROTONS		IONIZED HELIUM	
		WIDTH (Å)	SHIFT (Å)	WIDTH (Å)	SHIFT (Å)	WIDTH (Å)	SHIFT (Å)
In II 6P-8S 4206.3 Å C=0.45E+20	5000.	*6.41	*3.03				
	10000.	4.86	2.62				
	20000.	4.39	2.15	*0.540	*0.430		
	30000.	4.13	1.99	*0.615	*0.528		
	50000.	3.93	1.73	*0.719	*0.620		
	100000.	3.76	1.40	*0.854	*0.728		
In II 6P-9S 3377.6 Å C=0.17E+20	5000.						
	10000.	*6.35	*3.64				
	20000.	*5.60	*3.19				
	30000.	5.38	2.89				
	50000.	5.09	2.63				
	100000.	4.86	2.16				
In II 5P-5D 1966.7 Å C=0.16E+20	5000.	0.475	-0.975E-03	*0.230E-01	-0.439E-02	*0.273E-01	-0.390E-02
	10000.	0.366	-0.472E-02	*0.354E-01	-0.864E-02	*0.395E-01	-0.716E-02
	20000.	0.295	-0.801E-02	*0.437E-01	-0.132E-01	*0.467E-01	-0.108E-01
	30000.	0.266	-0.108E-01	0.476E-01	-0.154E-01	*0.503E-01	-0.126E-01
	50000.	0.240	-0.686E-02	0.520E-01	-0.182E-01	*0.538E-01	-0.148E-01
	100000.	0.212	-0.735E-02	0.566E-01	-0.217E-01	*0.564E-01	-0.177E-01
In II 5P-6D 1571.5 Å C=0.22E+19	5000.	*0.662	*0.278E-01				
	10000.	0.580	0.495E-01				
	20000.	0.532	0.439E-01				
	30000.	0.508	0.432E-01	*0.971E-01	*0.627E-01		
	50000.	0.480	0.447E-01	*0.108	*0.748E-01		
	100000.	0.437	0.381E-01	*0.122	*0.862E-01		
In II 5P-7D 1381.9 Å C=0.13E+19	5000.	*0.923	*0.174E-01				
	10000.	*0.850	*0.478E-01				
	20000.	0.839	0.385E-01				
	30000.	0.839	0.396E-01				
	50000.	0.832	0.406E-01				
	100000.	0.794	0.306E-01				
In II 5P-8D 1292.5 Å C=0.73E+18	5000.						
	10000.	*1.46	*0.302E-02				
	20000.	*1.51	*0.208E-01				
	30000.	*1.54	*0.339E-01				
	50000.	*1.56	*0.236E-01				
	100000.	1.51	0.227E-01				
In II 5P-9D 1243.1 Å C=0.43E+18	5000.						
	10000.						
	20000.						
	30000.						
	50000.	*2.80	-0.309E-01				
	100000.	*2.72	*0.407E-02				
In II 6P-6D 5920.4 Å C=0.32E+20	5000.	*11.8	-0.542				
	10000.	10.2	-0.161				
	20000.	9.39	-0.711E-01				
	30000.	9.03	-0.708E-01				
	50000.	8.57	0.979E-02	*1.53	*0.925		
	100000.	7.85	0.456E-01	*1.70	*1.06		
In II 6P-7D 3903.2 Å C=0.11E+20	5000.	*8.25	-0.337				
	10000.	*7.56	-0.132				
	20000.	*7.44	-0.851E-01				
	30000.	7.44	-0.605E-01				
	50000.	7.36	0.165E-01				
	100000.	7.02	0.160E-02				
In II 6P-8D 3265.0 Å C=0.47E+19	5000.						
	10000.	*9.84	-0.250				
	20000.	*10.1	-0.216				
	30000.	*10.3	-0.877E-01				
	50000.	*10.5	-0.820E-01				
	100000.	10.1	-0.397E-01				

PERTURBERS ARE: TRANSITION	T(K)	ELECTRONS		PROTONS		IONIZED HELIUM	
		WIDTH (Å)	SHIFT (Å)	WIDTH (Å)	SHIFT (Å)	WIDTH (Å)	SHIFT (Å)
In II 6P-9D 2967.0 Å C=0.25E+19	5000.						
	10000.						
	20000.						
	30000.						
	50000.	*16.3	-0.380				
100000.	*15.9	-0.126					
In II 5D-8P 4502.1 Å C=0.14E+20	5000.						
	10000.	*13.8	-5.71				
	20000.	*12.5	-4.76				
	30000.	*12.1	-4.24				
	50000.	*11.7	-3.70				
100000.	10.9	-2.96					
In II 5D-4F 10189.5 Å C=0.31E+21	5000.	22.6	2.97	*1.39	*0.309		
	10000.	17.8	2.12	*2.03	*0.552		
	20000.	14.8	1.54	*2.42	*0.787		
	30000.	13.5	1.42	*2.62	*0.936		
	50000.	12.3	1.16	*2.83	*1.10		
100000.	11.0	0.925	*2.98	*1.28	*2.93	*1.04	
In II 5D-5F 4975.2 Å C=0.13E+20	5000.						
	10000.	*14.8	*6.45				
	20000.	*13.6	*5.31				
	30000.	13.2	4.71				
	50000.	12.7	4.04				
100000.	11.7	3.30					
TRIPLETS							
In II 6S-6P 7029.8 Å C=0.29E+21	5000.	7.35	-2.54	*0.270	-0.720E-01	*0.322	-0.637E-01
	10000.	5.43	-1.97	0.421	-0.137	*0.471	-0.116
	20000.	4.10	-1.53	0.528	-0.209	*0.559	-0.167
	30000.	3.54	-1.34	0.577	-0.242	*0.604	-0.197
	50000.	3.06	-1.15	0.638	-0.286	*0.651	-0.234
100000.	2.58	-0.924	0.700	-0.342	*0.693	-0.274	
In II 6S-7P 3011.3 Å C=0.21E+20	5000.	*2.84	-1.12				
	10000.	2.16	-0.885				
	20000.	1.81	-0.736				
	30000.	1.67	-0.654				
	50000.	1.53	-0.560	*0.409	-0.203		
100000.	1.38	-0.462	*0.449	-0.237			
In II 6S-8P 2380.1 Å C=0.67E+19	5000.	*3.60	-1.50				
	10000.	*2.92	-1.27				
	20000.	2.57	-1.13				
	30000.	2.43	-1.01				
	50000.	2.32	-0.869				
100000.	2.17	-0.712					
In II 6S-9P 2134.0 Å C=0.27E+19	5000.						
	10000.						
	20000.	*4.57	-2.02				
	30000.	*4.46	-1.79				
	50000.	*4.37	-1.57				
100000.	4.11	-1.25					
In II 5P-6S 2027.9 Å C=0.58E+20	5000.	0.221	0.101	0.134E-02	0.205E-02	0.214E-02	0.194E-02
	10000.	0.156	0.760E-01	0.352E-02	0.437E-02	0.458E-02	0.391E-02
	20000.	0.109	0.592E-01	0.657E-02	0.694E-02	0.729E-02	0.598E-02
	30000.	0.892E-01	0.494E-01	0.888E-02	0.868E-02	0.881E-02	0.714E-02
	50000.	0.745E-01	0.422E-01	0.111E-01	0.102E-01	0.104E-01	0.839E-02
100000.	0.614E-01	0.343E-01	0.141E-01	0.123E-01	0.127E-01	0.101E-01	
In II 5P-7S 1301.5 Å C=0.96E+19	5000.	0.238	0.130	0.357E-02	0.506E-02	*0.420E-02	*0.412E-02
	10000.	0.163	0.105	0.772E-02	0.903E-02	*0.757E-02	*0.742E-02
	20000.	0.120	0.809E-01	0.130E-01	0.129E-01	*0.112E-01	*0.103E-01
	30000.	0.110	0.733E-01	0.154E-01	0.153E-01	*0.131E-01	*0.124E-01
	50000.	0.969E-01	0.626E-01	0.183E-01	0.181E-01	0.156E-01	0.147E-01
100000.	0.830E-01	0.502E-01	0.231E-01	0.209E-01	0.186E-01	0.170E-01	

STARK BROADENING PARAMETER TABLES FOR In II

PERTURBERS ARE: TRANSITION	T(K)	ELECTRONS		PROTONS		IONIZED HELIUM	
		WIDTH (Å)	SHIFT (Å)	WIDTH (Å)	SHIFT (Å)	WIDTH (Å)	SHIFT (Å)
In II 5P-8S 1130.4 Å C=0.37E+19	5000.	*0.399	*0.186	*0.129E-01	*0.105E-01		
	10000.	0.279	0.177	*0.237E-01	*0.187E-01		
	20000.	0.233	0.146	*0.312E-01	*0.272E-01		
	30000.	0.210	0.138	*0.358E-01	*0.333E-01		
	50000.	0.189	0.120	*0.423E-01	*0.395E-01		
	100000.	0.170	0.962E-01	*0.511E-01	*0.457E-01	*0.417E-01	*0.372E-01
In II 5P-9S 1057.9 Å C=0.18E+19	5000.	*0.656	*0.306				
	10000.	*0.487	*0.303				
	20000.	0.422	0.264				
	30000.	0.398	0.241				
	50000.	0.364	0.218				
	100000.	0.340	0.178				
In II 6P-7S 7522.4 Å C=0.32E+21	5000.	12.9	4.54	*0.364	*0.204	*0.406	*0.160
	10000.	9.51	4.11	*0.589	*0.362	*0.608	*0.293
	20000.	7.23	3.57	*0.777	*0.514	*0.745	*0.411
	30000.	6.51	3.09	*0.861	*0.608	*0.826	*0.493
	50000.	5.70	2.79	0.974	0.719	*0.912	*0.583
	100000.	4.84	2.28	1.14	0.838	*0.985	*0.666
In II 6P-8S 4012.3 Å C=0.46E+20	5000.	*5.99	*2.45	*0.203	*0.137		
	10000.	4.42	2.42	*0.342	*0.244		
	20000.	3.65	2.03	*0.450	*0.359		
	30000.	3.37	1.83	*0.513	*0.441		
	50000.	3.01	1.70	*0.596	*0.522		
	100000.	2.70	1.38	*0.691	*0.592		
In II 6P-9S 3227.0 Å C=0.17E+20	5000.	*6.64	*2.90				
	10000.	*5.01	*2.92				
	20000.	4.31	2.54				
	30000.	4.07	2.34				
	50000.	3.75	2.14				
	100000.	3.51	1.76				
In II 5P-5D 1735.8 Å C=0.18E+20	5000.	0.220	0.184E-01	0.783E-02	0.187E-02	*0.106E-01	*0.175E-02
	10000.	0.158	0.163E-01	0.132E-01	0.394E-02	*0.161E-01	*0.344E-02
	20000.	0.117	0.137E-01	0.183E-01	0.616E-02	*0.196E-01	*0.524E-02
	30000.	0.101	0.139E-01	0.200E-01	0.758E-02	*0.212E-01	*0.614E-02
	50000.	0.853E-01	0.130E-01	0.221E-01	0.890E-02	0.231E-01	0.723E-02
	100000.	0.701E-01	0.118E-01	0.248E-01	0.106E-01	0.247E-01	0.864E-02
In II 5P-6D 1247.1 Å C=0.18E+19	5000.	*0.408	-0.901E-02	*0.236E-01	-0.883E-02		
	10000.	0.341	-0.188E-01	*0.348E-01	-0.162E-01		
	20000.	0.308	-0.139E-01	*0.424E-01	-0.227E-01		
	30000.	0.295	-0.154E-01	*0.472E-01	-0.272E-01		
	50000.	0.281	-0.147E-01	*0.521E-01	-0.325E-01		
	100000.	0.257	-0.125E-01	*0.571E-01	-0.373E-01	*0.522E-01	-0.298E-01
In II 5P-7D 1109.4 Å C=0.99E+18	5000.	*0.589	-0.174E-01				
	10000.	*0.539	-0.322E-01				
	20000.	0.531	-0.292E-01				
	30000.	0.533	-0.282E-01				
	50000.	0.532	-0.293E-01				
	100000.	0.510	-0.235E-01				
In II 5P-8D 1046.2 Å C=0.64E+18	5000.						
	10000.	*0.884	-0.298E-01				
	20000.	*0.935	-0.264E-01				
	30000.	*0.968	-0.257E-01				
	50000.	*0.993	-0.251E-01				
	100000.	0.971	-0.224E-01				
In II 5P-9D 1013.2 Å C=0.38E+18	5000.	*0.607	-0.917E-01				
	10000.	*0.462	-0.953E-01				
	20000.	0.378	-0.850E-01				
	30000.	0.347	-0.868E-01				
	50000.	0.319	-0.780E-01				
	100000.	0.296	-0.721E-01				

PERTURBERS ARE: TRANSITION	T(K)	ELECTRONS		PROTONS		IONIZED HELIUM	
		WIDTH (Å)	SHIFT (Å)	WIDTH (Å)	SHIFT (Å)	WIDTH (Å)	SHIFT (Å)
In II 6P-6D 6007.5 Å C=0.41E+20	5000.	*11.8	*0.754				
	10000.	9.71	0.351				
	20000.	8.59	0.253	*1.09	-0.485		
	30000.	8.14	0.192	*1.19	-0.584		
	50000.	7.66	0.124	*1.30	-0.698		
	100000.	6.96	0.781E-01	*1.40	-0.796		
In II 6P-7D 3758.7 Å C=0.11E+20	5000.	*7.49	*0.912E-01				
	10000.	*6.78	-0.113				
	20000.	6.58	-0.125				
	30000.	6.57	-0.127				
	50000.	6.51	-0.165				
	100000.	6.21	-0.127				
In II 6P-8D 3120.2 Å C=0.57E+19	5000.						
	10000.	*8.21	-0.161				
	20000.	*8.61	-0.141				
	30000.	*8.89	-0.132				
	50000.	*9.09	-0.130				
	100000.	8.87	-0.117				
In II 6P-9D 2844.1 Å C=0.30E+19	5000.	*5.13	-0.803				
	10000.	*3.92	-0.764				
	20000.	3.22	-0.651				
	30000.	2.97	-0.647				
	50000.	2.73	-0.566				
	100000.	2.52	-0.501				
In II 5D-7P 4014.0 Å C=0.38E+20	5000.	*5.22	-1.96				
	10000.	3.98	-1.51				
	20000.	3.31	-1.24				
	30000.	3.05	-1.10				
	50000.	2.79	-0.942	*0.753	-0.364		
	100000.	2.51	-0.764	*0.822	-0.424		
In II 5D-8P 2965.7 Å C=0.10E+20	5000.	*5.68	-2.35				
	10000.	*4.61	-1.99				
	20000.	4.05	-1.74				
	30000.	3.82	-1.56				
	50000.	3.64	-1.33				
	100000.	3.39	-1.08				
In II 5D-9P 2593.1 Å C=0.39E+19	5000.						
	10000.						
	20000.	*6.79	-2.98				
	30000.	*6.62	-2.64				
	50000.	*6.48	-2.30				
	100000.	6.08	-1.84				
In II 5D-5F 3151.5 Å C=0.57E+19	5000.						
	10000.	*6.06	2.72				
	20000.	*5.58	2.23				
	30000.	5.43	1.96				
	50000.	5.28	1.71				
	100000.	4.89	1.40				
In II 5D-6F 2678.2 Å C=0.26E+19	5000.						
	10000.						
	20000.	*8.14	*3.46				
	30000.	*8.06	*3.11				
	50000.	*7.90	*2.67				
	100000.	7.39	2.11				
In II 5D-7F 2456.1 Å C=0.15E+19	5000.						
	10000.						
	20000.						
	30000.						
	50000.	*13.1	*4.19				
	100000.	*12.3	*3.33				

STARK BROADENING PARAMETER TABLES FOR In II

PERTURBERS ARE: TRANSITION		T(K)	ELECTRONS WIDTH (Å) SHIFT (Å)		PROTONS WIDTH (Å) SHIFT (Å)		IONIZED HELIUM WIDTH (Å) SHIFT (Å)	
In II 5D-8F 2678.2 Å C=0.26E+19	5000.							
	10000.							
	20000.	*8.14	*3.48					
	30000.	*8.06	*3.12					
	50000.	*7.91	*2.69					
100000.	7.39	2.13						
In II 5D-4F 4665.5 Å C=0.25E+20	5000.	*5.46	*0.295	*0.288	*0.129			
	10000.	4.32	0.382	*0.445	*0.239			
	20000.	3.57	0.392	*0.550	*0.336			
	30000.	3.22	0.380	*0.610	*0.401			
	50000.	2.83	0.365	*0.688	*0.477			
100000.	2.40	0.337	*0.787	*0.560	*0.707	*0.449		
In II 4F-9D 5087.8 Å C=0.97E+19	5000.							
	10000.	*14.6	-3.82					
	20000.	*12.2	-3.30					
	30000.	11.2	-3.12					
	50000.	10.3	-2.72					
100000.	9.34	-2.41						
PERTURBER DENSITY = 1.E+18 cm ⁻³ SINGLETs								
In II 5S-5P 1586.5 Å C=0.86E+21	5000.	0.690	-0.375E-01	0.858E-02	-0.134E-03	*0.126E-01	-0.134E-03	
	10000.	0.471	-0.381E-01	0.248E-01	-0.560E-03	*0.330E-01	-0.558E-03	
	20000.	0.340	-0.207E-01	0.417E-01	-0.142E-02	*0.510E-01	-0.137E-02	
	30000.	0.284	-0.180E-01	0.516E-01	-0.215E-02	*0.577E-01	-0.200E-02	
	50000.	0.228	-0.162E-01	0.592E-01	-0.326E-02	*0.641E-01	-0.290E-02	
100000.	0.177	-0.128E-01	0.672E-01	-0.480E-02	*0.718E-01	-0.412E-02		
In II 5S-6P 911.0 Å C=0.34E+20	5000.	*0.949	*0.300					
	10000.	*0.761	*0.234					
	20000.	0.650	0.178					
	30000.	0.612	0.158					
	50000.	0.572	0.138					
100000.	0.520	0.108						
In II 5S-7P 783.9 Å C=0.55E+19	5000.							
	10000.							
	20000.	*1.74	-0.482					
	30000.	*1.66	-0.440					
	50000.	*1.57	-0.401					
100000.	*1.43	-0.332						
In II 5S-8P 734.8 Å C=0.38E+19	5000.							
	10000.							
	20000.							
	30000.							
	50000.							
100000.	*2.63	-0.621						
In II 5P-6S 2941.9 Å C=0.11E+22	5000.	*5.67	*2.35	*0.376E-01	*0.228E-01	*0.504E-01	*0.193E-01	
	10000.	4.05	1.78	*0.115	*0.796E-01	*0.134	*0.651E-01	
	20000.	2.87	1.39	*0.202	*0.148	*0.219	*0.121	
	30000.	2.36	1.16	*0.259	*0.191	*0.251	*0.149	
	50000.	2.01	1.01	0.314	0.236	*0.291	*0.187	
100000.	1.68	0.814	0.379	0.297	*0.348	*0.241		
In II 5P-7S 1657.4 Å C=0.12E+21	5000.							
	10000.	*4.28	*2.27					
	20000.	*3.28	*1.88					
	30000.	2.91	1.83					
	50000.	2.62	1.57					
100000.	2.29	1.27						
In II 5P-8S 1418.1 Å C=0.51E+20	5000.							
	10000.							
	20000.	*4.48	*2.55					
	30000.	*4.18	*2.34					
	50000.	*3.71	*2.19					
100000.	3.38	1.78						

PERTURBERS ARE: TRANSITION	T(K)	ELECTRONS		PROTONS		IONIZED HELIUM	
		WIDTH (Å)	SHIFT (Å)	WIDTH (Å)	SHIFT (Å)	WIDTH (Å)	SHIFT (Å)
In II 5P-9S 1309.8 Å C=0.25E+20	5000.						
	10000.						
	20000.						
	30000.						
	50000.	*6.98	*3.65				
100000.	*6.53	*3.07					
In II 5P-5D 1966.7 Å C=0.16E+21	5000.	*4.75	*0.627E-01				
	10000.	*3.66	-0.650E-02				
	20000.	2.95	-0.518E-01				
	30000.	2.66	-0.849E-01				
	50000.	2.40	-0.509E-01				
100000.	2.12	-0.599E-01	*0.565	-0.209			
In II 5P-6D 1571.5 Å C=0.22E+20	5000.						
	10000.						
	20000.	*5.21	*0.148				
	30000.	*5.00	*0.194				
	50000.	*4.74	*0.268				
100000.	4.33	0.235					
In II 5P-7D 1381.9 Å C=0.13E+20	5000.						
	10000.						
	20000.						
	30000.						
	50000.	*8.07	*0.122				
100000.	*7.76	*0.658E-01					
TRIPLETS							
In II 5P-6S 2027.9 Å C=0.58E+21	5000.	2.22	0.983	0.101E-01	0.878E-02	*0.148E-01	*0.772E-02
	10000.	1.56	0.741	0.334E-01	0.308E-01	*0.423E-01	*0.262E-01
	20000.	1.09	0.580	0.651E-01	0.583E-01	*0.714E-01	*0.486E-01
	30000.	0.892	0.485	0.886E-01	0.763E-01	*0.874E-01	*0.608E-01
	50000.	0.745	0.415	0.110	0.933E-01	*0.103	*0.754E-01
100000.	0.614	0.338	0.141	0.120	*0.127	*0.972E-01	
In II 5P-7S 1301.5 Å C=0.96E+20	5000.	*2.38	*1.20				
	10000.	*1.63	*0.989				
	20000.	1.20	0.770				
	30000.	1.10	0.701				
	50000.	0.969	0.602	*0.183	*0.154		
100000.	0.831	0.484	*0.229	*0.197			
In II 5P-8S 1130.4 Å C=0.37E+20	5000.						
	10000.						
	20000.	*2.33	*1.32				
	30000.	*2.10	*1.26				
	50000.	1.89	1.11				
100000.	1.70	0.897					
In II 5P-9S 1057.9 Å C=0.18E+20	5000.						
	10000.						
	20000.						
	30000.	*3.96	*2.04				
	50000.	*3.62	*1.89				
100000.	*3.39	*1.58					
In II 5P-5D 1735.8 Å C=0.18E+21	5000.	*2.20	*0.157	*0.443E-01	*0.784E-02		
	10000.	1.58	0.146	*0.113	*0.274E-01		
	20000.	1.17	0.126	*0.175	*0.512E-01		
	30000.	1.01	0.130	*0.195	*0.658E-01		
	50000.	0.853	0.124	*0.220	*0.816E-01		
100000.	0.701	0.112	*0.247	*0.103			
In II 5P-6D 1247.1 Å C=0.18E+20	5000.						
	10000.						
	20000.	*3.05	-0.326E-01				
	30000.	*2.92	-0.679E-01				
	50000.	*2.79	-0.822E-01				
100000.	2.56	-0.724E-01					

STARK BROADENING PARAMETER TABLES FOR In II

PERTURBERS ARE: TRANSITION	T(K)	ELECTRONS		PROTONS		IONIZED HELIUM	
		WIDTH (Å)	SHIFT (Å)	WIDTH (Å)	SHIFT (Å)	WIDTH (Å)	SHIFT (Å)
In II 5P-7D 1109.4 Å C=0.99E+19	5000.						
	10000.						
	20000.						
	30000.						
	50000.	*5.19	-0.142				
100000.	*5.00	-0.111					
In II 5P-9D 1013.2 Å C=0.38E+19	5000.						
	10000.						
	20000.						
	30000.	*3.43	-0.205				
	50000.	*3.17	-0.262				
100000.	*2.96	-0.251					
PERTURBER DENSITY = 1.E+19 cm ⁻³							
SINGLETs							
In II 5S-5P 1586.5 Å C=0.86E+22	5000.						
	10000.	*4.70	-0.372				
	20000.	3.40	-0.203				
	30000.	2.84	-0.177				
	50000.	2.28	-0.159	*0.562	-0.295E-01		
100000.	1.77	-0.125	*0.663	-0.458E-01			
In II 5S-6P 911.0 Å C=0.34E+21	5000.						
	10000.						
	20000.						
	30000.	*6.06	*1.14				
	50000.	*5.68	*1.05				
100000.	*5.17	*0.851					
TRIPLETs							
In II 5P-6S 2027.9 Å C=0.58E+22	5000.						
	10000.	*15.6	*6.72				
	20000.	*10.9	*5.39				
	30000.	8.92	4.53				
	50000.	7.45	3.91				
100000.	6.14	3.21					
In II 5P-7S 1301.5 Å C=0.96E+21	5000.						
	10000.						
	20000.						
	30000.	*11.0	*5.90				
	50000.	*9.66	*5.19				
100000.	*8.28	*4.27					
In II 5P-5D 1735.8 Å C=0.18E+22	5000.						
	10000.						
	20000.	*11.7	*0.862				
	30000.	*10.1	*0.987				
	50000.	8.52	1.00				
100000.	7.01	0.962					

as isolated when divided by the corresponding full width at half maximum. For each value given in Table 1, the collision volume (V) multiplied by the perturber density (N) is much less than one and the impact approximation is valid (Sahal-Bréchet, 1969ab). Values for $NV > 0.5$ are not given and values for $0.1 < NV \leq 0.5$ are denoted by an asterisk. Stark broadening parameters for densities lower than tabulated, are linear with perturber density. When the impact approximation is not valid, the ion broadening contribution may be estimated by using quasistatic approach (Sahal-Bréchet 1991 or Griem 1974). In the region between where neither of these two approximations is valid, a unified type theory should be used. For example in Barnard *et al.* (1974), a simple analytical formula for such a case is given. The accuracy of the results obtained decreases when broadening by ion interactions becomes important.

The discussion of obtained results as well as Stark broadening data for perturber density of 10^{16} cm^{-3} will be published in Dimitrijević and Sahal-Bréchet (2001).

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ТАБЕЛЕ ПАРАМЕТАРА ШТАРКОВОГ ШИРЕЊА СПЕКТРАЛНИХ ЛИНИЈА In II

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Користећи семикласичан прилаз, израчунате су ширине и помераји спектралних линија, проузроковани сударима са електронима,

протонима и јонима хелијума, за 145 мултиплета In II. Резултати су дати у функцији температуре и концентрације пертурбера.