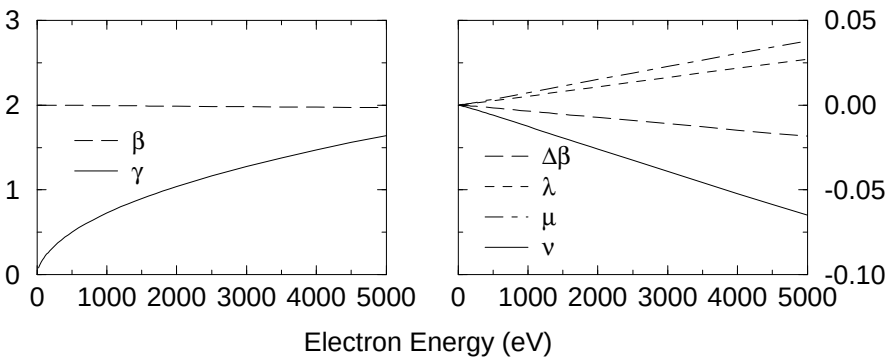
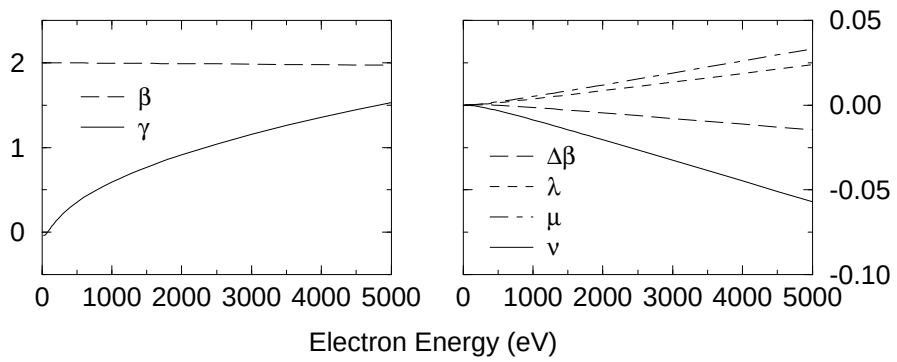
$1s$ shell of He $\quad E_b = 24.6$ (eV) $\quad$ (δ negligible for ns shells)

E (eV)	ω (eV)	β	γ	$\Delta\beta$	λ	μ	ν
20	44.6	1.9999	0.0794	-0.00003	0.00007	0.00010	-0.00016
40	64.6	1.9998	0.1169	-0.00008	0.00015	0.00020	-0.00035
60	84.6	1.9997	0.1474	-0.00014	0.00023	0.00032	-0.00055
80	104.6	1.9996	0.1741	-0.00019	0.00031	0.00044	-0.00075
100	124.6	1.9995	0.1982	-0.00025	0.00040	0.00056	-0.00097
120	144.6	1.9994	0.2204	-0.00031	0.00050	0.00069	-0.00119
140	164.6	1.9993	0.2411	-0.00037	0.00059	0.00083	-0.00142
160	184.6	1.9992	0.2606	-0.00044	0.00069	0.00096	-0.00165
180	204.6	1.9991	0.2791	-0.00050	0.00079	0.00110	-0.00189
200	224.6	1.9990	0.2967	-0.00057	0.00089	0.00124	-0.00213
250	274.6	1.9987	0.3375	-0.00074	0.00114	0.00160	-0.00274
300	324.6	1.9984	0.3747	-0.00091	0.00140	0.00196	-0.00337
350	374.6	1.9981	0.4089	-0.00108	0.00167	0.00233	-0.00400
400	424.6	1.9978	0.4409	-0.00126	0.00194	0.00271	-0.00465
450	474.6	1.9975	0.4709	-0.00144	0.00221	0.00309	-0.00530
500	524.6	1.9972	0.4992	-0.00162	0.00248	0.00347	-0.00595
600	624.6	1.9965	0.5519	-0.00199	0.00303	0.00424	-0.00727
700	724.6	1.9959	0.6002	-0.00236	0.00358	0.00501	-0.00859
800	824.6	1.9953	0.6449	-0.00274	0.00413	0.00579	-0.00992
900	924.6	1.9947	0.6868	-0.00311	0.00469	0.00656	-0.01125
1000	1024.6	1.9940	0.7263	-0.00349	0.00525	0.00734	-0.01259
1100	1124.6	1.9934	0.7637	-0.00386	0.00580	0.00812	-0.01392
1200	1224.6	1.9928	0.7993	-0.00424	0.00636	0.00890	-0.01525
1300	1324.6	1.9922	0.8334	-0.00462	0.00691	0.00967	-0.01659
1400	1424.6	1.9916	0.8660	-0.00499	0.00747	0.01045	-0.01792
1500	1524.6	1.9909	0.8975	-0.00537	0.00802	0.01123	-0.01925
1600	1624.6	1.9903	0.9278	-0.00575	0.00858	0.01200	-0.02058
1700	1724.6	1.9897	0.9572	-0.00612	0.00913	0.01278	-0.02191
1800	1824.6	1.9891	0.9856	-0.00650	0.00969	0.01355	-0.02324
1900	1924.6	1.9884	1.0132	-0.00688	0.01024	0.01433	-0.02457
2000	2024.6	1.9878	1.0400	-0.00725	0.01079	0.01510	-0.02589
2500	2524.6	1.9847	1.1642	-0.00913	0.01355	0.01896	-0.03251
3000	3024.6	1.9817	1.2755	-0.01099	0.01630	0.02279	-0.03909
3500	3524.6	1.9786	1.3771	-0.01286	0.01903	0.02661	-0.04565
4000	4024.6	1.9756	1.4709	-0.01472	0.02176	0.03042	-0.05218
4500	4524.6	1.9725	1.5585	-0.01656	0.02447	0.03421	-0.05868
5000	5024.6	1.9695	1.6406	-0.01830	0.02711	0.03790	-0.06501



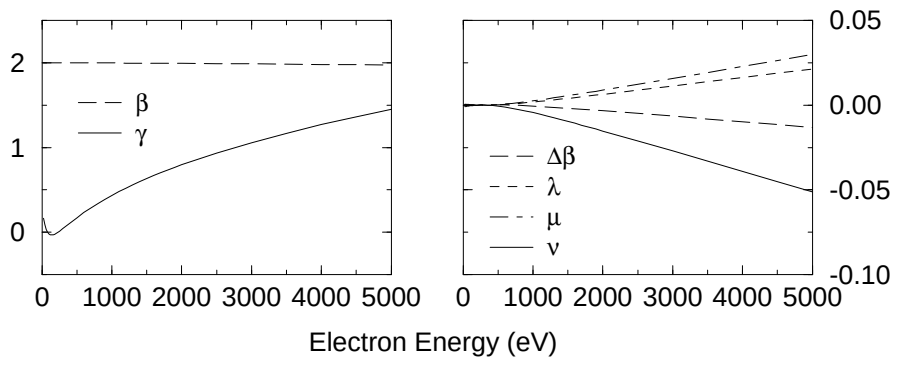
$1s$ shell of Ne $E_b = 870.2$ (eV) (δ negligible for ns shells)

E (eV)	ω (eV)	β	γ	$\Delta\beta$	λ	μ	ν
20	890.2	2.0000	-0.0339	0.00003	0.00000	-0.00001	0.00001
40	910.2	1.9999	-0.0333	0.00008	0.00000	0.00000	0.00000
60	930.2	1.9998	-0.0198	0.00012	0.00001	0.00002	-0.00004
80	950.2	1.9998	0.0002	0.00017	0.00004	0.00005	-0.00009
100	970.2	1.9997	0.0226	0.00020	0.00007	0.00009	-0.00016
120	990.2	1.9996	0.0456	0.00023	0.00010	0.00014	-0.00025
140	1010.2	1.9995	0.0682	0.00026	0.00014	0.00020	-0.00035
160	1030.2	1.9994	0.0901	0.00027	0.00019	0.00027	-0.00046
180	1050.2	1.9993	0.1111	0.00028	0.00024	0.00034	-0.00058
200	1070.2	1.9992	0.1311	0.00029	0.00030	0.00041	-0.00071
250	1120.2	1.9989	0.1774	0.00027	0.00045	0.00062	-0.00107
300	1170.2	1.9987	0.2190	0.00023	0.00061	0.00086	-0.00147
350	1220.2	1.9984	0.2569	0.00017	0.00079	0.00111	-0.00190
400	1270.2	1.9981	0.2917	0.00009	0.00098	0.00138	-0.00236
450	1320.2	1.9979	0.3241	0.00000	0.00118	0.00165	-0.00283
500	1370.2	1.9976	0.3545	-0.00010	0.00139	0.00194	-0.00333
600	1470.2	1.9971	0.4103	-0.00033	0.00181	0.00253	-0.00435
700	1570.2	1.9965	0.4609	-0.00058	0.00225	0.00315	-0.00540
800	1670.2	1.9960	0.5075	-0.00084	0.00270	0.00378	-0.00649
900	1770.2	1.9954	0.5510	-0.00112	0.00316	0.00443	-0.00759
1000	1870.2	1.9949	0.5918	-0.00141	0.00363	0.00508	-0.00871
1100	1970.2	1.9943	0.6303	-0.00170	0.00411	0.00574	-0.00985
1200	2070.2	1.9937	0.6670	-0.00201	0.00458	0.00641	-0.01099
1300	2170.2	1.9932	0.7020	-0.00231	0.00507	0.00708	-0.01215
1400	2270.2	1.9926	0.7355	-0.00262	0.00555	0.00776	-0.01331
1500	2370.2	1.9921	0.7678	-0.00294	0.00604	0.00844	-0.01448
1600	2470.2	1.9915	0.7989	-0.00326	0.00653	0.00913	-0.01566
1700	2570.2	1.9909	0.8290	-0.00358	0.00702	0.00982	-0.01684
1800	2670.2	1.9904	0.8581	-0.00390	0.00752	0.01051	-0.01802
1900	2770.2	1.9898	0.8864	-0.00422	0.00801	0.01120	-0.01921
2000	2870.2	1.9892	0.9138	-0.00455	0.00851	0.01190	-0.02041
2500	3370.2	1.9863	1.0411	-0.00620	0.01102	0.01540	-0.02642
3000	3870.2	1.9835	1.1553	-0.00787	0.01355	0.01894	-0.03249
3500	4370.2	1.9806	1.2596	-0.00956	0.01610	0.02249	-0.03859
4000	4870.2	1.9777	1.3560	-0.01126	0.01866	0.02606	-0.04472
4500	5370.2	1.9747	1.4462	-0.01297	0.02123	0.02965	-0.05087
5000	5870.2	1.9718	1.5310	-0.01468	0.02380	0.03323	-0.05703



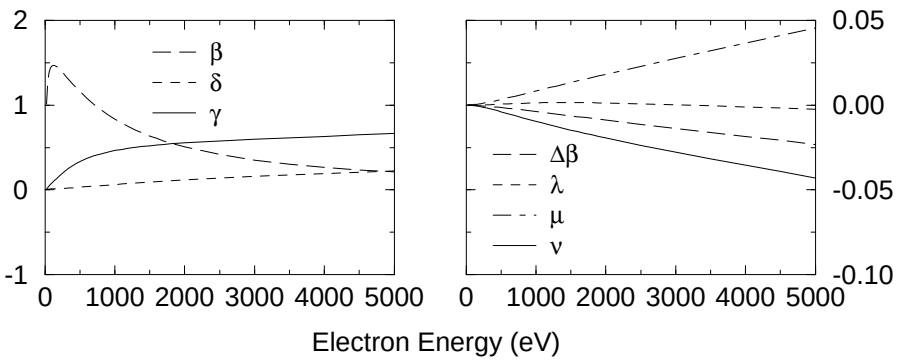
$2s$ shell of Ne $E_b = 53.0$ (eV) (δ negligible for ns shells)

E (eV)	ω (eV)	β	γ	$\Delta\beta$	λ	μ	ν
20	73.0	1.9993	0.1657	0.00002	0.00033	0.00047	-0.00080
40	93.0	1.9994	0.0910	-0.00003	0.00034	0.00048	-0.00082
60	113.0	1.9995	0.0353	-0.00007	0.00030	0.00043	-0.00073
80	133.0	1.9996	-0.0002	-0.00009	0.00025	0.00035	-0.00060
100	153.0	1.9997	-0.0205	-0.00009	0.00020	0.00028	-0.00047
120	173.0	1.9998	-0.0301	-0.00008	0.00015	0.00020	-0.00035
140	193.0	1.9999	-0.0324	-0.00006	0.00010	0.00014	-0.00024
160	213.0	1.9999	-0.0298	-0.00004	0.00006	0.00009	-0.00015
180	233.0	2.0000	-0.0238	-0.00002	0.00003	0.00004	-0.00007
200	253.0	2.0000	-0.0154	0.00001	0.00000	0.00000	0.00000
250	303.0	2.0000	0.0117	0.00007	-0.00004	-0.00005	0.00009
300	353.0	1.9999	0.0428	0.00012	-0.00004	-0.00005	0.00009
350	403.0	1.9999	0.0753	0.00016	-0.00001	-0.00001	0.00003
400	453.0	1.9997	0.1079	0.00017	0.00004	0.00006	-0.00011
450	503.0	1.9996	0.1400	0.00018	0.00012	0.00017	-0.00029
500	553.0	1.9994	0.1712	0.00016	0.00022	0.00031	-0.00053
600	653.0	1.9991	0.2309	0.00010	0.00046	0.00065	-0.00111
700	753.0	1.9986	0.2868	-0.00002	0.00076	0.00106	-0.00182
800	853.0	1.9982	0.3391	-0.00017	0.00109	0.00153	-0.00262
900	953.0	1.9977	0.3883	-0.00035	0.00146	0.00203	-0.00349
1000	1053.0	1.9972	0.4346	-0.00055	0.00184	0.00258	-0.00442
1100	1153.0	1.9967	0.4784	-0.00078	0.00225	0.00315	-0.00540
1200	1253.0	1.9962	0.5200	-0.00102	0.00267	0.00374	-0.00641
1300	1353.0	1.9957	0.5596	-0.00128	0.00311	0.00434	-0.00745
1400	1453.0	1.9951	0.5974	-0.00154	0.00355	0.00497	-0.00852
1500	1553.0	1.9946	0.6337	-0.00182	0.00401	0.00560	-0.00961
1600	1653.0	1.9940	0.6684	-0.00210	0.00447	0.00624	-0.01071
1700	1753.0	1.9935	0.7019	-0.00239	0.00493	0.00690	-0.01183
1800	1853.0	1.9929	0.7342	-0.00268	0.00540	0.00755	-0.01296
1900	1953.0	1.9924	0.7654	-0.00298	0.00588	0.00822	-0.01410
2000	2053.0	1.9918	0.7956	-0.00329	0.00636	0.00889	-0.01524
2500	2553.0	1.9890	0.9343	-0.00486	0.00879	0.01229	-0.02108
3000	3053.0	1.9862	1.0568	-0.00648	0.01127	0.01575	-0.02702
3500	3553.0	1.9833	1.1676	-0.00812	0.01377	0.01924	-0.03301
4000	4053.0	1.9804	1.2693	-0.00979	0.01629	0.02276	-0.03905
4500	4553.0	1.9776	1.3638	-0.01147	0.01882	0.02629	-0.04511
5000	5053.0	1.9747	1.4523	-0.01316	0.02136	0.02984	-0.05120



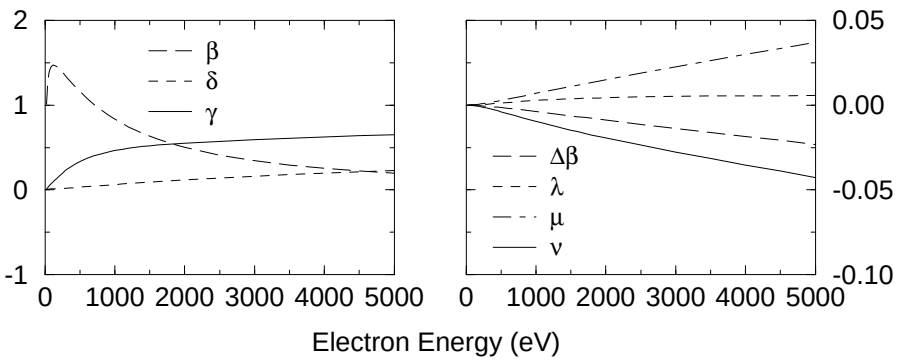
$2p_{1/2}$ shell of Ne $\quad E_b = 21.7$ (eV)

E (eV)	ω (eV)	β	δ	γ	$\Delta\beta$	λ	μ	ν
20	41.7	1.0158	0.0084	0.0100	-0.00003	-0.00005	0.00004	0.00001
40	61.7	1.2892	0.0089	0.0301	-0.00005	-0.00005	0.00009	-0.00004
60	81.7	1.3949	0.0096	0.0475	-0.00008	-0.00005	0.00014	-0.00010
80	101.7	1.4428	0.0103	0.0643	-0.00012	-0.00004	0.00021	-0.00017
100	121.7	1.4634	0.0110	0.0810	-0.00015	-0.00003	0.00029	-0.00025
120	141.7	1.4691	0.0118	0.0977	-0.00019	-0.00002	0.00037	-0.00035
140	161.7	1.4659	0.0126	0.1142	-0.00023	-0.00001	0.00047	-0.00046
160	181.7	1.4571	0.0134	0.1304	-0.00027	0.00001	0.00057	-0.00058
180	201.7	1.4447	0.0143	0.1462	-0.00031	0.00003	0.00069	-0.00072
200	221.7	1.4298	0.0152	0.1617	-0.00036	0.00006	0.00081	-0.00087
250	271.7	1.3869	0.0175	0.1980	-0.00050	0.00013	0.00116	-0.00129
300	321.7	1.3404	0.0201	0.2311	-0.00065	0.00021	0.00154	-0.00175
350	371.7	1.2935	0.0228	0.2610	-0.00082	0.00031	0.00195	-0.00226
400	421.7	1.2474	0.0256	0.2878	-0.00100	0.00040	0.00239	-0.00279
450	471.7	1.2029	0.0285	0.3118	-0.00120	0.00050	0.00284	-0.00334
500	521.7	1.1604	0.0315	0.3335	-0.00140	0.00060	0.00331	-0.00391
600	621.7	1.0812	0.0376	0.3705	-0.00184	0.00078	0.00428	-0.00507
700	721.7	1.0097	0.0438	0.4007	-0.00230	0.00095	0.00528	-0.00623
800	821.7	0.9454	0.0500	0.4256	-0.00278	0.00109	0.00629	-0.00738
900	921.7	0.8874	0.0561	0.4464	-0.00327	0.00121	0.00731	-0.00852
1000	1021.7	0.8350	0.0622	0.4639	-0.00377	0.00131	0.00832	-0.00963
1100	1121.7	0.7876	0.0681	0.4788	-0.00427	0.00138	0.00933	-0.01071
1200	1221.7	0.7444	0.0739	0.4917	-0.00478	0.00143	0.01034	-0.01176
1300	1321.7	0.7051	0.0796	0.5028	-0.00528	0.00146	0.01134	-0.01280
1400	1421.7	0.6692	0.0852	0.5126	-0.00579	0.00147	0.01233	-0.01381
1500	1521.7	0.6363	0.0906	0.5213	-0.00630	0.00147	0.01332	-0.01479
1600	1621.7	0.6061	0.0959	0.5291	-0.00680	0.00145	0.01430	-0.01575
1700	1721.7	0.5782	0.1011	0.5361	-0.00731	0.00142	0.01527	-0.01668
1800	1821.7	0.5525	0.1061	0.5425	-0.00781	0.00137	0.01623	-0.01760
1900	1921.7	0.5287	0.1111	0.5484	-0.00831	0.00132	0.01719	-0.01851
2000	2021.7	0.5067	0.1159	0.5539	-0.00881	0.00126	0.01814	-0.01940
2500	2521.7	0.4170	0.1385	0.5773	-0.01128	0.00084	0.02285	-0.02369
3000	3021.7	0.3522	0.1588	0.5967	-0.01375	0.00030	0.02749	-0.02779
3500	3521.7	0.3035	0.1774	0.6146	-0.01611	-0.00034	0.03202	-0.03167
4000	4021.7	0.2659	0.1945	0.6313	-0.01852	-0.00105	0.03654	-0.03549
4500	4521.7	0.2362	0.2103	0.6482	-0.02074	-0.00179	0.04096	-0.03917
5000	5021.7	0.2120	0.2251	0.6643	-0.02324	-0.00240	0.04556	-0.04316



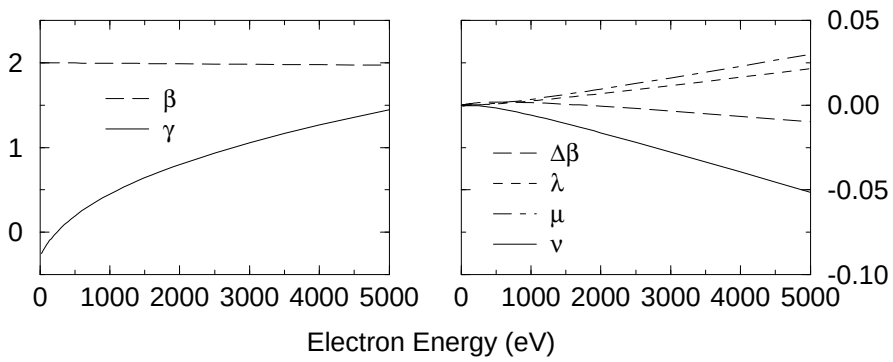
$2p_{3/2}$ shell of Ne $\quad E_b = 21.6$ (eV)

E (eV)	ω (eV)	β	δ	γ	$\Delta\beta$	λ	μ	ν
20	41.6	1.0157	0.0084	0.0100	-0.00003	0.00000	-0.00001	0.00000
40	61.6	1.2894	0.0089	0.0301	-0.00005	0.00002	0.00002	-0.00004
60	81.6	1.3955	0.0096	0.0475	-0.00008	0.00004	0.00006	-0.00010
80	101.6	1.4437	0.0103	0.0644	-0.00012	0.00006	0.00010	-0.00017
100	121.6	1.4645	0.0110	0.0811	-0.00015	0.00009	0.00016	-0.00025
120	141.6	1.4704	0.0118	0.0978	-0.00019	0.00012	0.00023	-0.00035
140	161.6	1.4673	0.0126	0.1143	-0.00023	0.00016	0.00030	-0.00046
160	181.6	1.4586	0.0134	0.1306	-0.00027	0.00020	0.00039	-0.00059
180	201.6	1.4463	0.0143	0.1465	-0.00031	0.00024	0.00048	-0.00072
200	221.6	1.4315	0.0152	0.1619	-0.00036	0.00029	0.00058	-0.00087
250	271.6	1.3885	0.0175	0.1983	-0.00050	0.00042	0.00087	-0.00129
300	321.6	1.3420	0.0201	0.2315	-0.00065	0.00057	0.00119	-0.00176
350	371.6	1.2949	0.0228	0.2614	-0.00082	0.00073	0.00154	-0.00226
400	421.6	1.2488	0.0256	0.2882	-0.00101	0.00089	0.00191	-0.00280
450	471.6	1.2041	0.0285	0.3123	-0.00120	0.00106	0.00229	-0.00335
500	521.6	1.1614	0.0315	0.3340	-0.00141	0.00123	0.00269	-0.00392
600	621.6	1.0818	0.0377	0.3710	-0.00185	0.00156	0.00352	-0.00508
700	721.6	1.0100	0.0439	0.4012	-0.00231	0.00188	0.00436	-0.00624
800	821.6	0.9452	0.0501	0.4260	-0.00279	0.00218	0.00522	-0.00740
900	921.6	0.8868	0.0563	0.4467	-0.00328	0.00246	0.00607	-0.00853
1000	1021.6	0.8340	0.0623	0.4641	-0.00378	0.00272	0.00693	-0.00965
1100	1121.6	0.7861	0.0683	0.4788	-0.00428	0.00296	0.00777	-0.01073
1200	1221.6	0.7426	0.0742	0.4915	-0.00478	0.00317	0.00861	-0.01178
1300	1321.6	0.7029	0.0799	0.5025	-0.00529	0.00338	0.00944	-0.01282
1400	1421.6	0.6665	0.0856	0.5121	-0.00580	0.00356	0.01026	-0.01382
1500	1521.6	0.6332	0.0911	0.5205	-0.00631	0.00373	0.01108	-0.01480
1600	1621.6	0.6026	0.0964	0.5281	-0.00681	0.00388	0.01188	-0.01576
1700	1721.6	0.5743	0.1017	0.5349	-0.00732	0.00402	0.01267	-0.01669
1800	1821.6	0.5482	0.1068	0.5411	-0.00782	0.00415	0.01346	-0.01761
1900	1921.6	0.5241	0.1118	0.5468	-0.00832	0.00427	0.01424	-0.01851
2000	2021.6	0.5016	0.1167	0.5520	-0.00882	0.00438	0.01502	-0.01940
2500	2521.6	0.4101	0.1397	0.5740	-0.01130	0.00483	0.01883	-0.02366
3000	3021.6	0.3435	0.1605	0.5918	-0.01377	0.00515	0.02258	-0.02773
3500	3521.6	0.2932	0.1796	0.6081	-0.01612	0.00535	0.02621	-0.03156
4000	4021.6	0.2541	0.1972	0.6231	-0.01853	0.00547	0.02985	-0.03532
4500	4521.6	0.2227	0.2136	0.6381	-0.02074	0.00556	0.03338	-0.03893
5000	5021.6	0.1971	0.2290	0.6523	-0.02325	0.00575	0.03711	-0.04287



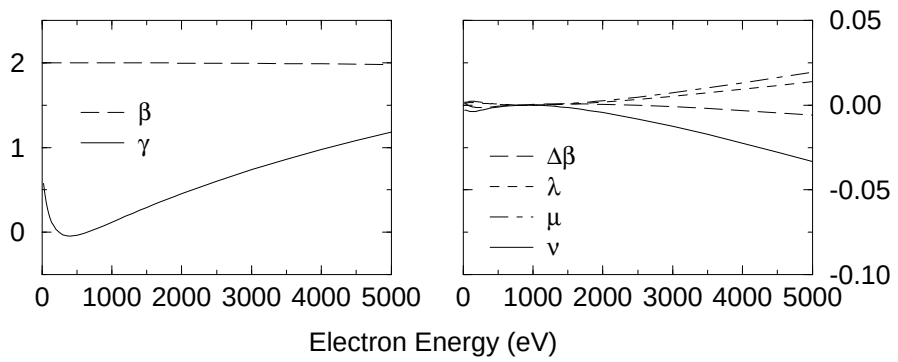
$1s$ shell of Ar $E_b = 3206.1$ (eV) (δ negligible for ns shells)

E (eV)	ω (eV)	β	γ	$\Delta\beta$	λ	μ	ν
20	3226.1	1.9992	-0.2504	0.00024	0.00026	0.00036	-0.00061
40	3246.1	1.9992	-0.2212	0.00031	0.00022	0.00031	-0.00054
60	3266.1	1.9991	-0.1913	0.00045	0.00019	0.00026	-0.00045
80	3286.1	1.9990	-0.1648	0.00060	0.00015	0.00021	-0.00036
100	3306.1	1.9989	-0.1405	0.00075	0.00013	0.00017	-0.00030
120	3326.1	1.9988	-0.1177	0.00087	0.00011	0.00015	-0.00026
140	3346.1	1.9987	-0.0961	0.00099	0.00010	0.00014	-0.00025
160	3366.1	1.9986	-0.0754	0.00109	0.00011	0.00015	-0.00025
180	3386.1	1.9985	-0.0556	0.00118	0.00012	0.00016	-0.00027
200	3406.1	1.9984	-0.0366	0.00125	0.00013	0.00018	-0.00031
250	3456.1	1.9982	0.0083	0.00141	0.00019	0.00026	-0.00045
300	3506.1	1.9979	0.0498	0.00153	0.00027	0.00038	-0.00065
350	3556.1	1.9976	0.0885	0.00163	0.00037	0.00051	-0.00089
400	3606.1	1.9973	0.1249	0.00169	0.00049	0.00067	-0.00116
450	3656.1	1.9971	0.1592	0.00174	0.00061	0.00085	-0.00146
500	3706.1	1.9968	0.1917	0.00177	0.00075	0.00104	-0.00179
600	3806.1	1.9962	0.2520	0.00178	0.00105	0.00146	-0.00251
700	3906.1	1.9957	0.3073	0.00175	0.00138	0.00191	-0.00329
800	4006.1	1.9951	0.3584	0.00168	0.00173	0.00240	-0.00413
900	4106.1	1.9946	0.4060	0.00157	0.00209	0.00291	-0.00501
1000	4206.1	1.9940	0.4507	0.00144	0.00248	0.00345	-0.00593
1100	4306.1	1.9935	0.4929	0.00129	0.00287	0.00400	-0.00688
1200	4406.1	1.9929	0.5330	0.00112	0.00328	0.00457	-0.00785
1300	4506.1	1.9923	0.5711	0.00093	0.00370	0.00515	-0.00885
1400	4606.1	1.9918	0.6076	0.00073	0.00413	0.00575	-0.00987
1500	4706.1	1.9912	0.6425	0.00052	0.00456	0.00635	-0.01091
1600	4806.1	1.9906	0.6761	0.00030	0.00500	0.00697	-0.01197
1700	4906.1	1.9900	0.7085	0.00006	0.00545	0.00759	-0.01303
1800	5006.1	1.9895	0.7398	-0.00018	0.00590	0.00822	-0.01411
1900	5106.1	1.9889	0.7701	-0.00043	0.00635	0.00885	-0.01520
2000	5206.1	1.9883	0.7995	-0.00068	0.00681	0.00949	-0.01631
2500	5706.1	1.9855	0.9349	-0.00204	0.00916	0.01277	-0.02193
3000	6206.1	1.9826	1.0552	-0.00350	0.01157	0.01612	-0.02769
3500	6706.1	1.9797	1.1643	-0.00502	0.01401	0.01953	-0.03354
4000	7206.1	1.9768	1.2646	-0.00658	0.01649	0.02297	-0.03946
4500	7706.1	1.9739	1.3578	-0.00817	0.01898	0.02644	-0.04541
5000	8206.1	1.9710	1.4452	-0.00978	0.02148	0.02992	-0.05140



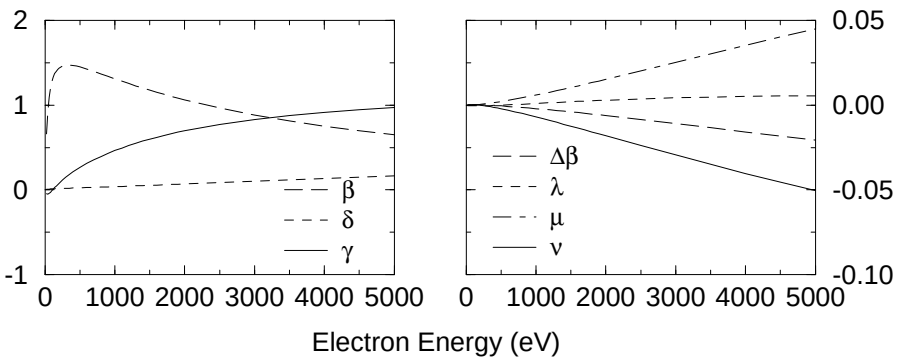
$2s$ shell of Ar $\quad E_b = 327.3$ (eV) $\quad$ (δ negligible for ns shells)

E (eV)	ω (eV)	β	γ	$\Delta\beta$	λ	μ	ν
20	347.3	1.9961	0.5741	0.00137	0.00128	0.00179	-0.00307
40	367.3	1.9968	0.4536	0.00083	0.00119	0.00167	-0.00286
60	387.3	1.9972	0.3525	0.00028	0.00132	0.00185	-0.00317
80	407.3	1.9974	0.2741	-0.00021	0.00146	0.00205	-0.00350
100	427.3	1.9977	0.2115	-0.00059	0.00155	0.00217	-0.00372
120	447.3	1.9979	0.1608	-0.00087	0.00159	0.00223	-0.00382
140	467.3	1.9981	0.1194	-0.00106	0.00159	0.00223	-0.00383
160	487.3	1.9982	0.0854	-0.00119	0.00157	0.00220	-0.00377
180	507.3	1.9984	0.0574	-0.00127	0.00152	0.00214	-0.00366
200	527.3	1.9986	0.0344	-0.00132	0.00146	0.00205	-0.00352
250	577.3	1.9989	-0.0062	-0.00134	0.00129	0.00181	-0.00309
300	627.3	1.9992	-0.0296	-0.00127	0.00110	0.00154	-0.00263
350	677.3	1.9994	-0.0411	-0.00115	0.00091	0.00128	-0.00219
400	727.3	1.9996	-0.0445	-0.00101	0.00074	0.00104	-0.00178
450	777.3	1.9997	-0.0420	-0.00086	0.00059	0.00083	-0.00141
500	827.3	1.9998	-0.0353	-0.00071	0.00045	0.00064	-0.00109
600	927.3	1.9999	-0.0134	-0.00043	0.00024	0.00034	-0.00059
700	1027.3	1.9999	0.0154	-0.00017	0.00010	0.00014	-0.00025
800	1127.3	1.9998	0.0479	0.00005	0.00002	0.00003	-0.00005
900	1227.3	1.9997	0.0824	0.00023	-0.00001	-0.00001	0.00001
1000	1327.3	1.9995	0.1178	0.00038	0.00001	0.00002	-0.00003
1100	1427.3	1.9993	0.1536	0.00049	0.00007	0.00010	-0.00017
1200	1527.3	1.9990	0.1892	0.00058	0.00017	0.00023	-0.00040
1300	1627.3	1.9987	0.2245	0.00064	0.00029	0.00041	-0.00070
1400	1727.3	1.9984	0.2594	0.00067	0.00045	0.00063	-0.00108
1500	1827.3	1.9981	0.2937	0.00068	0.00063	0.00088	-0.00151
1600	1927.3	1.9977	0.3274	0.00067	0.00083	0.00116	-0.00200
1700	2027.3	1.9974	0.3605	0.00064	0.00106	0.00147	-0.00253
1800	2127.3	1.9970	0.3930	0.00059	0.00130	0.00181	-0.00311
1900	2227.3	1.9966	0.4249	0.00053	0.00156	0.00217	-0.00374
2000	2327.3	1.9961	0.4561	0.00045	0.00184	0.00256	-0.00440
2500	2827.3	1.9939	0.6035	-0.00015	0.00341	0.00476	-0.00817
3000	3327.3	1.9915	0.7378	-0.00100	0.00524	0.00730	-0.01254
3500	3827.3	1.9889	0.8611	-0.00203	0.00724	0.01009	-0.01733
4000	4327.3	1.9862	0.9749	-0.00320	0.00937	0.01306	-0.02242
4500	4827.3	1.9835	1.0808	-0.00448	0.01159	0.01615	-0.02774
5000	5327.3	1.9807	1.1797	-0.00583	0.01388	0.01934	-0.03321



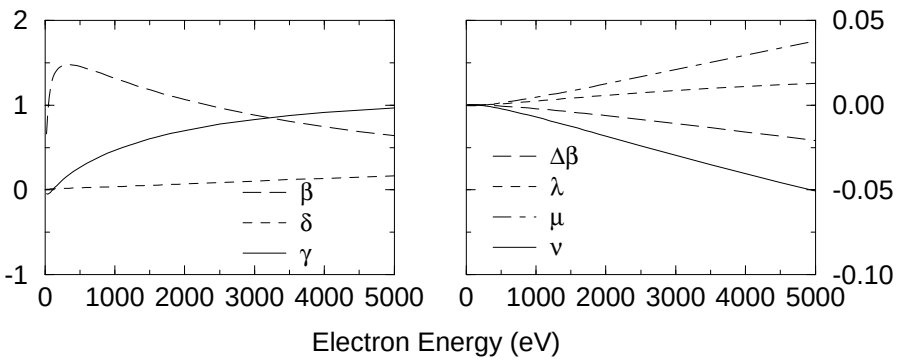
$2p_{1/2}$ shell of Ar $\quad E_b = 251.6$ (eV)

E (eV)	ω (eV)	β	δ	γ	$\Delta\beta$	λ	μ	ν
20	271.6	0.6629	0.0077	-0.0454	0.00004	-0.00028	0.00005	0.00023
40	291.6	0.9243	0.0086	-0.0493	0.00007	-0.00028	0.00003	0.00025
60	311.6	1.0936	0.0099	-0.0418	0.00011	-0.00030	0.00003	0.00027
80	331.6	1.2037	0.0114	-0.0276	0.00014	-0.00033	0.00004	0.00029
100	351.6	1.2789	0.0127	-0.0103	0.00017	-0.00036	0.00007	0.00029
120	371.6	1.3322	0.0137	0.0081	0.00018	-0.00038	0.00011	0.00027
140	391.6	1.3710	0.0146	0.0263	0.00019	-0.00039	0.00016	0.00023
160	411.6	1.3997	0.0154	0.0441	0.00018	-0.00040	0.00023	0.00017
180	431.6	1.4212	0.0160	0.0612	0.00017	-0.00040	0.00030	0.00010
200	451.6	1.4373	0.0166	0.0776	0.00015	-0.00040	0.00038	0.00001
250	501.6	1.4616	0.0178	0.1158	0.00009	-0.00036	0.00061	-0.00025
300	551.6	1.4714	0.0190	0.1504	0.00000	-0.00031	0.00087	-0.00056
350	601.6	1.4725	0.0202	0.1822	-0.00010	-0.00025	0.00116	-0.00091
400	651.6	1.4683	0.0213	0.2116	-0.00022	-0.00018	0.00147	-0.00129
450	701.6	1.4605	0.0225	0.2391	-0.00034	-0.00010	0.00179	-0.00169
500	751.6	1.4503	0.0237	0.2649	-0.00047	-0.00001	0.00212	-0.00211
600	851.6	1.4256	0.0263	0.3124	-0.00076	0.00017	0.00282	-0.00300
700	951.6	1.3979	0.0290	0.3553	-0.00106	0.00037	0.00356	-0.00393
800	1051.6	1.3690	0.0318	0.3944	-0.00138	0.00057	0.00434	-0.00491
900	1151.6	1.3397	0.0348	0.4303	-0.00171	0.00078	0.00514	-0.00592
1000	1251.6	1.3107	0.0378	0.4635	-0.00206	0.00098	0.00597	-0.00695
1100	1351.6	1.2823	0.0409	0.4943	-0.00242	0.00119	0.00682	-0.00801
1200	1451.6	1.2545	0.0441	0.5230	-0.00280	0.00139	0.00770	-0.00909
1300	1551.6	1.2276	0.0474	0.5497	-0.00318	0.00160	0.00859	-0.01018
1400	1651.6	1.2015	0.0506	0.5748	-0.00358	0.00179	0.00949	-0.01129
1500	1751.6	1.1762	0.0539	0.5984	-0.00398	0.00199	0.01041	-0.01240
1600	1851.6	1.1518	0.0572	0.6205	-0.00440	0.00218	0.01135	-0.01353
1700	1951.6	1.1282	0.0606	0.6413	-0.00482	0.00237	0.01229	-0.01466
1800	2051.6	1.1054	0.0639	0.6610	-0.00525	0.00255	0.01325	-0.01580
1900	2151.6	1.0834	0.0673	0.6795	-0.00569	0.00273	0.01421	-0.01694
2000	2251.6	1.0621	0.0706	0.6971	-0.00613	0.00290	0.01518	-0.01809
2500	2751.6	0.9657	0.0873	0.7721	-0.00843	0.00368	0.02013	-0.02381
3000	3251.6	0.8836	0.1037	0.8305	-0.01083	0.00430	0.02514	-0.02945
3500	3751.6	0.8130	0.1196	0.8770	-0.01328	0.00478	0.03017	-0.03495
4000	4251.6	0.7517	0.1348	0.9146	-0.01576	0.00511	0.03517	-0.04028
4500	4751.6	0.6980	0.1496	0.9454	-0.01826	0.00533	0.04012	-0.04545
5000	5251.6	0.6506	0.1637	0.9712	-0.02075	0.00542	0.04501	-0.05044



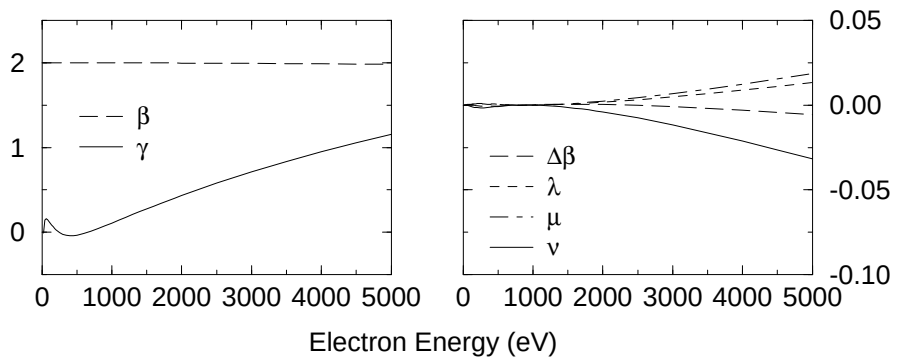
$2p_{3/2}$ shell of Ar $\quad E_b = 249.5$ (eV)

E (eV)	ω (eV)	β	δ	γ	$\Delta\beta$	λ	μ	ν
20	269.5	0.6590	0.0077	-0.0453	0.00003	0.00012	-0.00035	0.00023
40	289.5	0.9226	0.0086	-0.0494	0.00007	0.00010	-0.00035	0.00024
60	309.5	1.0935	0.0100	-0.0420	0.00011	0.00007	-0.00034	0.00027
80	329.5	1.2048	0.0115	-0.0278	0.00014	0.00004	-0.00033	0.00029
100	349.5	1.2808	0.0128	-0.0105	0.00017	0.00002	-0.00031	0.00029
120	369.5	1.3348	0.0139	0.0079	0.00018	0.00001	-0.00028	0.00027
140	389.5	1.3742	0.0147	0.0263	0.00019	0.00001	-0.00024	0.00023
160	409.5	1.4034	0.0155	0.0441	0.00018	0.00002	-0.00019	0.00017
180	429.5	1.4253	0.0161	0.0613	0.00017	0.00004	-0.00013	0.00009
200	449.5	1.4418	0.0167	0.0778	0.00015	0.00006	-0.00006	0.00001
250	499.5	1.4667	0.0179	0.1162	0.00009	0.00013	0.00012	-0.00026
300	549.5	1.4769	0.0191	0.1510	0.00000	0.00023	0.00034	-0.00057
350	599.5	1.4784	0.0202	0.1830	-0.00011	0.00035	0.00058	-0.00092
400	649.5	1.4744	0.0214	0.2127	-0.00022	0.00047	0.00083	-0.00131
450	699.5	1.4668	0.0225	0.2404	-0.00035	0.00061	0.00110	-0.00171
500	749.5	1.4568	0.0237	0.2664	-0.00048	0.00075	0.00138	-0.00214
600	849.5	1.4322	0.0263	0.3142	-0.00077	0.00105	0.00198	-0.00303
700	949.5	1.4044	0.0290	0.3573	-0.00107	0.00137	0.00260	-0.00398
800	1049.5	1.3754	0.0318	0.3967	-0.00139	0.00170	0.00326	-0.00496
900	1149.5	1.3459	0.0347	0.4328	-0.00173	0.00203	0.00394	-0.00598
1000	1249.5	1.3167	0.0378	0.4662	-0.00208	0.00237	0.00465	-0.00702
1100	1349.5	1.2879	0.0409	0.4971	-0.00245	0.00272	0.00537	-0.00809
1200	1449.5	1.2599	0.0441	0.5260	-0.00282	0.00306	0.00612	-0.00918
1300	1549.5	1.2326	0.0473	0.5528	-0.00321	0.00340	0.00688	-0.01028
1400	1649.5	1.2061	0.0506	0.5780	-0.00361	0.00374	0.00765	-0.01139
1500	1749.5	1.1805	0.0539	0.6016	-0.00402	0.00408	0.00843	-0.01252
1600	1849.5	1.1557	0.0573	0.6238	-0.00443	0.00442	0.00923	-0.01365
1700	1949.5	1.1317	0.0606	0.6446	-0.00486	0.00476	0.01004	-0.01479
1800	2049.5	1.1085	0.0640	0.6643	-0.00529	0.00509	0.01085	-0.01594
1900	2149.5	1.0861	0.0674	0.6828	-0.00573	0.00541	0.01168	-0.01709
2000	2249.5	1.0644	0.0708	0.7003	-0.00618	0.00574	0.01251	-0.01824
2500	2749.5	0.9658	0.0878	0.7748	-0.00849	0.00727	0.01672	-0.02399
3000	3249.5	0.8816	0.1045	0.8324	-0.01090	0.00867	0.02098	-0.02965
3500	3749.5	0.8088	0.1207	0.8776	-0.01336	0.00992	0.02525	-0.03517
4000	4249.5	0.7454	0.1365	0.9137	-0.01585	0.01103	0.02947	-0.04050
4500	4749.5	0.6897	0.1517	0.9429	-0.01836	0.01201	0.03364	-0.04565
5000	5249.5	0.6403	0.1664	0.9668	-0.02085	0.01286	0.03775	-0.05061



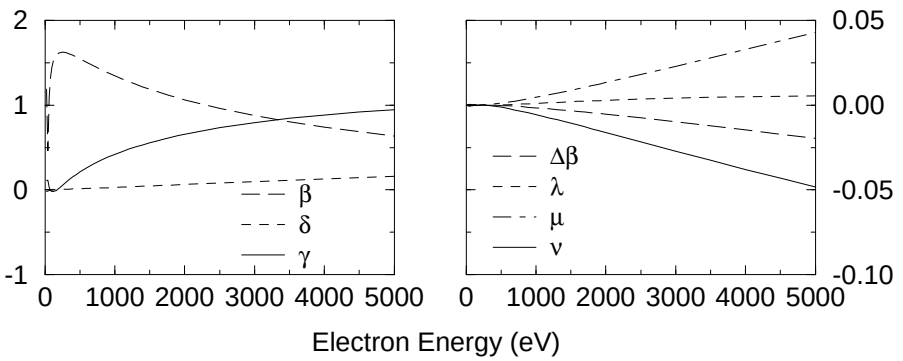
$3s$ shell of Ar $E_b = 30.0$ (eV) (δ negligible for ns shells)

E (eV)	ω (eV)	β	γ	$\Delta\beta$	λ	μ	ν
20	50.0	1.9991	-0.0104	-0.00010	0.00006	0.00008	-0.00014
40	70.0	1.9993	0.1419	0.00029	0.00000	0.00000	-0.00001
60	90.0	1.9992	0.1611	0.00047	0.00005	0.00007	-0.00011
80	110.0	1.9990	0.1495	0.00045	0.00015	0.00021	-0.00035
100	130.0	1.9990	0.1288	0.00034	0.00026	0.00037	-0.00063
120	150.0	1.9990	0.1057	0.00019	0.00037	0.00053	-0.00090
140	170.0	1.9990	0.0832	0.00003	0.00047	0.00066	-0.00113
160	190.0	1.9990	0.0622	-0.00011	0.00054	0.00076	-0.00131
180	210.0	1.9990	0.0434	-0.00024	0.00060	0.00084	-0.00144
200	230.0	1.9991	0.0269	-0.00034	0.00063	0.00089	-0.00153
250	280.0	1.9992	-0.0051	-0.00053	0.00067	0.00094	-0.00160
300	330.0	1.9994	-0.0255	-0.00062	0.00064	0.00090	-0.00154
350	380.0	1.9995	-0.0366	-0.00065	0.00058	0.00081	-0.00139
400	430.0	1.9996	-0.0407	-0.00063	0.00050	0.00070	-0.00120
450	480.0	1.9997	-0.0394	-0.00057	0.00041	0.00058	-0.00100
500	530.0	1.9998	-0.0340	-0.00050	0.00033	0.00047	-0.00080
600	630.0	1.9999	-0.0147	-0.00032	0.00019	0.00026	-0.00045
700	730.0	1.9999	0.0116	-0.00014	0.00008	0.00011	-0.00019
800	830.0	1.9998	0.0419	0.00004	0.00002	0.00002	-0.00004
900	930.0	1.9997	0.0744	0.00019	-0.00001	-0.00001	0.00001
1000	1030.0	1.9996	0.1079	0.00032	0.00001	0.00002	-0.00003
1100	1130.0	1.9994	0.1419	0.00042	0.00006	0.00009	-0.00015
1200	1230.0	1.9991	0.1759	0.00049	0.00015	0.00021	-0.00036
1300	1330.0	1.9989	0.2097	0.00055	0.00026	0.00037	-0.00063
1400	1430.0	1.9986	0.2432	0.00058	0.00040	0.00056	-0.00096
1500	1530.0	1.9983	0.2762	0.00059	0.00057	0.00079	-0.00135
1600	1630.0	1.9980	0.3088	0.00058	0.00075	0.00105	-0.00180
1700	1730.0	1.9976	0.3409	0.00055	0.00095	0.00133	-0.00229
1800	1830.0	1.9973	0.3724	0.00051	0.00118	0.00164	-0.00282
1900	1930.0	1.9969	0.4034	0.00046	0.00142	0.00198	-0.00339
2000	2030.0	1.9965	0.4339	0.00038	0.00167	0.00233	-0.00400
2500	2530.0	1.9944	0.5787	-0.00015	0.00315	0.00439	-0.00753
3000	3030.0	1.9920	0.7120	-0.00094	0.00488	0.00680	-0.01168
3500	3530.0	1.9895	0.8350	-0.00191	0.00681	0.00949	-0.01630
4000	4030.0	1.9869	0.9492	-0.00303	0.00887	0.01237	-0.02124
4500	4530.0	1.9842	1.0556	-0.00426	0.01105	0.01540	-0.02644
5000	5030.0	1.9815	1.1553	-0.00557	0.01329	0.01852	-0.03181



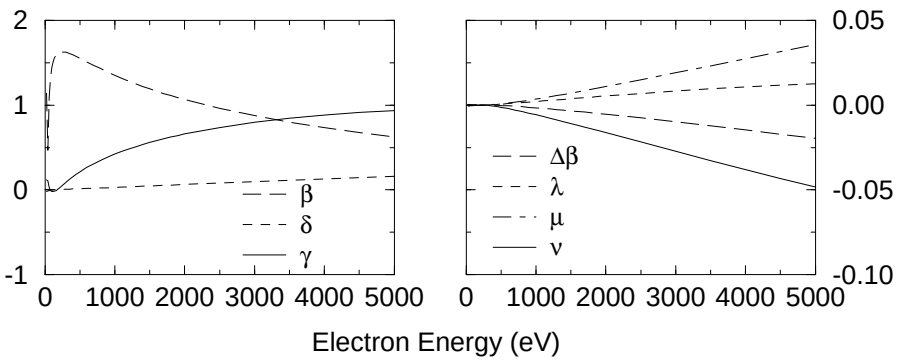
$3p_{1/2}$ shell of Ar $\quad E_b = 15.9$ (eV)

E (eV)	ω (eV)	β	δ	γ	$\Delta\beta$	λ	μ	ν
20	35.9	1.1890	-0.0213	0.1129	0.00030	-0.00004	0.00028	-0.00024
40	55.9	0.4586	-0.0154	0.1116	0.00017	0.00015	0.00051	-0.00065
60	75.9	1.0915	-0.0075	0.0279	0.00004	0.00016	0.00032	-0.00048
80	95.9	1.3287	-0.0039	-0.0066	0.00000	0.00013	0.00022	-0.00036
100	115.9	1.4482	-0.0015	-0.0199	-0.00001	0.00010	0.00015	-0.00025
120	135.9	1.5174	0.0004	-0.0213	-0.00001	0.00006	0.00009	-0.00015
140	155.9	1.5604	0.0018	-0.0160	0.00001	0.00002	0.00006	-0.00007
160	175.9	1.5879	0.0030	-0.0066	0.00003	-0.00002	0.00003	-0.00001
180	195.9	1.6054	0.0040	0.0050	0.00004	-0.00005	0.00003	0.00002
200	215.9	1.6162	0.0049	0.0180	0.00006	-0.00008	0.00003	0.00004
250	265.9	1.6252	0.0067	0.0527	0.00007	-0.00011	0.00010	0.00001
300	315.9	1.6196	0.0081	0.0876	0.00005	-0.00012	0.00024	-0.00012
350	365.9	1.6064	0.0095	0.1213	0.00001	-0.00009	0.00042	-0.00032
400	415.9	1.5891	0.0108	0.1531	-0.00005	-0.00005	0.00064	-0.00059
450	465.9	1.5696	0.0121	0.1829	-0.00013	0.00001	0.00089	-0.00090
500	515.9	1.5488	0.0135	0.2109	-0.00023	0.00008	0.00116	-0.00124
600	615.9	1.5060	0.0163	0.2620	-0.00045	0.00025	0.00176	-0.00202
700	715.9	1.4636	0.0192	0.3074	-0.00070	0.00044	0.00242	-0.00286
800	815.9	1.4226	0.0223	0.3482	-0.00098	0.00064	0.00312	-0.00376
900	915.9	1.3835	0.0254	0.3852	-0.00128	0.00084	0.00385	-0.00469
1000	1015.9	1.3464	0.0287	0.4190	-0.00159	0.00103	0.00461	-0.00565
1100	1115.9	1.3112	0.0320	0.4503	-0.00192	0.00123	0.00540	-0.00663
1200	1215.9	1.2779	0.0354	0.4792	-0.00226	0.00143	0.00620	-0.00763
1300	1315.9	1.2463	0.0388	0.5063	-0.00261	0.00162	0.00703	-0.00864
1400	1415.9	1.2162	0.0422	0.5316	-0.00297	0.00180	0.00787	-0.00967
1500	1515.9	1.1877	0.0457	0.5554	-0.00334	0.00199	0.00873	-0.01072
1600	1615.9	1.1605	0.0492	0.5778	-0.00372	0.00217	0.00961	-0.01178
1700	1715.9	1.1345	0.0526	0.5990	-0.00412	0.00234	0.01050	-0.01284
1800	1815.9	1.1097	0.0561	0.6190	-0.00451	0.00251	0.01140	-0.01392
1900	1915.9	1.0860	0.0596	0.6380	-0.00492	0.00268	0.01232	-0.01500
2000	2015.9	1.0632	0.0631	0.6560	-0.00534	0.00285	0.01325	-0.01610
2500	2515.9	0.9620	0.0803	0.7337	-0.00751	0.00360	0.01802	-0.02161
3000	3015.9	0.8773	0.0970	0.7952	-0.00981	0.00422	0.02292	-0.02714
3500	3515.9	0.8048	0.1132	0.8444	-0.01221	0.00471	0.02790	-0.03261
4000	4015.9	0.7416	0.1287	0.8844	-0.01462	0.00505	0.03285	-0.03790
4500	4515.9	0.6855	0.1437	0.9168	-0.01711	0.00531	0.03783	-0.04315
5000	5015.9	0.6352	0.1581	0.9432	-0.01960	0.00549	0.04278	-0.04826



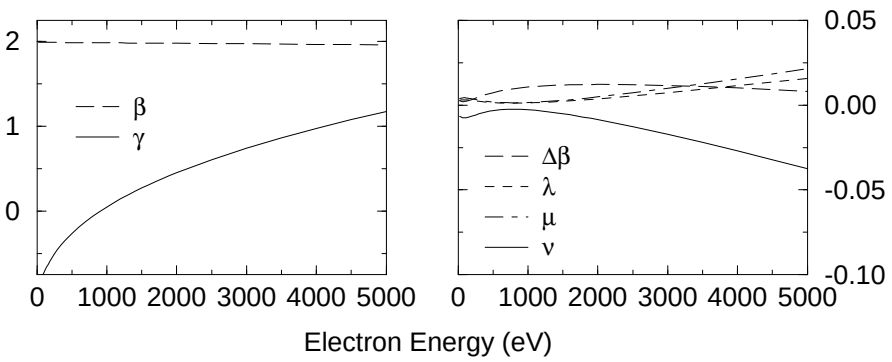
$3p_{3/2}$ shell of Ar $\quad E_b = 15.8$ (eV)

E (eV)	ω (eV)	β	δ	γ	$\Delta\beta$	λ	μ	ν
20	35.8	1.1399	-0.0214	0.1157	0.00030	-0.00005	0.00030	-0.00025
40	55.8	0.4683	-0.0146	0.1068	0.00015	0.00019	0.00043	-0.00063
60	75.8	1.0912	-0.0072	0.0265	0.00003	0.00022	0.00024	-0.00046
80	95.8	1.3271	-0.0038	-0.0071	-0.00001	0.00022	0.00013	-0.00035
100	115.8	1.4468	-0.0013	-0.0199	-0.00001	0.00020	0.00004	-0.00024
120	135.8	1.5167	0.0005	-0.0211	-0.00001	0.00017	-0.00003	-0.00015
140	155.8	1.5604	0.0020	-0.0156	0.00001	0.00015	-0.00008	-0.00007
160	175.8	1.5885	0.0032	-0.0062	0.00003	0.00013	-0.00011	-0.00001
180	195.8	1.6066	0.0042	0.0055	0.00004	0.00011	-0.00014	0.00002
200	215.8	1.6179	0.0051	0.0185	0.00005	0.00011	-0.00015	0.00004
250	265.8	1.6280	0.0068	0.0534	0.00007	0.00011	-0.00012	0.00001
300	315.8	1.6231	0.0083	0.0885	0.00005	0.00016	-0.00003	-0.00013
350	365.8	1.6106	0.0096	0.1222	0.00001	0.00023	0.00011	-0.00033
400	415.8	1.5938	0.0109	0.1542	-0.00006	0.00032	0.00028	-0.00060
450	465.8	1.5746	0.0123	0.1842	-0.00014	0.00044	0.00048	-0.00092
500	515.8	1.5541	0.0136	0.2124	-0.00023	0.00057	0.00070	-0.00127
600	615.8	1.5117	0.0163	0.2637	-0.00046	0.00085	0.00120	-0.00205
700	715.8	1.4694	0.0193	0.3093	-0.00071	0.00116	0.00175	-0.00290
800	815.8	1.4285	0.0223	0.3504	-0.00100	0.00148	0.00233	-0.00380
900	915.8	1.3893	0.0255	0.3876	-0.00130	0.00180	0.00294	-0.00474
1000	1015.8	1.3520	0.0287	0.4216	-0.00161	0.00213	0.00358	-0.00571
1100	1115.8	1.3166	0.0320	0.4530	-0.00194	0.00246	0.00424	-0.00670
1200	1215.8	1.2830	0.0354	0.4821	-0.00229	0.00280	0.00491	-0.00771
1300	1315.8	1.2510	0.0388	0.5092	-0.00264	0.00313	0.00561	-0.00873
1400	1415.8	1.2207	0.0423	0.5346	-0.00300	0.00345	0.00632	-0.00977
1500	1515.8	1.1918	0.0457	0.5584	-0.00338	0.00378	0.00704	-0.01083
1600	1615.8	1.1642	0.0492	0.5809	-0.00376	0.00411	0.00778	-0.01189
1700	1715.8	1.1379	0.0527	0.6021	-0.00416	0.00443	0.00854	-0.01297
1800	1815.8	1.1127	0.0562	0.6221	-0.00456	0.00475	0.00930	-0.01405
1900	1915.8	1.0885	0.0597	0.6410	-0.00497	0.00507	0.01007	-0.01514
2000	2015.8	1.0654	0.0633	0.6590	-0.00539	0.00538	0.01086	-0.01624
2500	2515.8	0.9620	0.0807	0.7362	-0.00757	0.00689	0.01489	-0.02179
3000	3015.8	0.8752	0.0978	0.7967	-0.00988	0.00829	0.01904	-0.02732
3500	3515.8	0.8007	0.1144	0.8446	-0.01229	0.00955	0.02324	-0.03279
4000	4015.8	0.7355	0.1304	0.8829	-0.01470	0.01067	0.02740	-0.03806
4500	4515.8	0.6777	0.1459	0.9134	-0.01719	0.01169	0.03157	-0.04326
5000	5015.8	0.6258	0.1610	0.9375	-0.01968	0.01262	0.03567	-0.04829



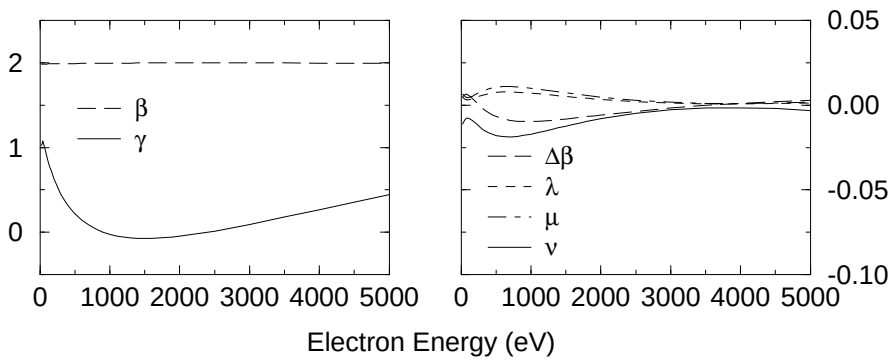
$1s$ shell of Kr $E_b = 14327.1$ (eV) (δ negligible for ns shells)

E (eV)	ω (eV)	β	γ	$\Delta\beta$	λ	μ	ν
20	14347.1	1.9906	-0.7718	0.00267	0.00281	0.00375	-0.00656
40	14367.1	1.9906	-0.8252	0.00236	0.00300	0.00403	-0.00703
60	14387.1	1.9905	-0.7997	0.00213	0.00315	0.00424	-0.00739
80	14407.1	1.9905	-0.7636	0.00209	0.00321	0.00432	-0.00753
100	14427.1	1.9904	-0.7267	0.00218	0.00319	0.00431	-0.00750
120	14447.1	1.9903	-0.6912	0.00235	0.00314	0.00424	-0.00738
140	14467.1	1.9903	-0.6577	0.00258	0.00306	0.00413	-0.00719
160	14487.1	1.9902	-0.6261	0.00284	0.00297	0.00399	-0.00696
180	14507.1	1.9901	-0.5964	0.00312	0.00286	0.00385	-0.00671
200	14527.1	1.9900	-0.5683	0.00341	0.00275	0.00369	-0.00644
250	14577.1	1.9897	-0.5041	0.00417	0.00247	0.00329	-0.00576
300	14627.1	1.9895	-0.4470	0.00492	0.00220	0.00291	-0.00511
350	14677.1	1.9892	-0.3954	0.00563	0.00196	0.00257	-0.00452
400	14727.1	1.9889	-0.3481	0.00629	0.00175	0.00227	-0.00402
450	14777.1	1.9887	-0.3044	0.00688	0.00157	0.00202	-0.00359
500	14827.1	1.9884	-0.2636	0.00743	0.00143	0.00182	-0.00325
600	14927.1	1.9878	-0.1891	0.00836	0.00123	0.00153	-0.00277
700	15027.1	1.9872	-0.1221	0.00912	0.00114	0.00139	-0.00252
800	15127.1	1.9867	-0.0609	0.00974	0.00112	0.00135	-0.00247
900	15227.1	1.9861	-0.0043	0.01025	0.00116	0.00141	-0.00257
1000	15327.1	1.9855	0.0485	0.01066	0.00126	0.00153	-0.00279
1100	15427.1	1.9849	0.0980	0.01101	0.00139	0.00171	-0.00311
1200	15527.1	1.9843	0.1448	0.01129	0.00156	0.00194	-0.00351
1300	15627.1	1.9837	0.1893	0.01153	0.00176	0.00221	-0.00398
1400	15727.1	1.9831	0.2316	0.01171	0.00199	0.00252	-0.00450
1500	15827.1	1.9825	0.2721	0.01186	0.00223	0.00285	-0.00508
1600	15927.1	1.9820	0.3109	0.01198	0.00249	0.00321	-0.00571
1700	16027.1	1.9814	0.3482	0.01207	0.00277	0.00359	-0.00637
1800	16127.1	1.9808	0.3842	0.01213	0.00307	0.00400	-0.00706
1900	16227.1	1.9802	0.4189	0.01217	0.00337	0.00442	-0.00779
2000	16327.1	1.9796	0.4526	0.01219	0.00369	0.00485	-0.00855
2500	16827.1	1.9766	0.6067	0.01204	0.00542	0.00723	-0.01265
3000	17327.1	1.9737	0.7425	0.01158	0.00732	0.00984	-0.01716
3500	17827.1	1.9707	0.8647	0.01091	0.00934	0.01261	-0.02195
4000	18327.1	1.9677	0.9764	0.01008	0.01144	0.01551	-0.02695
4500	18827.1	1.9647	1.0796	0.00912	0.01361	0.01850	-0.03211
5000	19327.1	1.9618	1.1758	0.00807	0.01583	0.02155	-0.03738



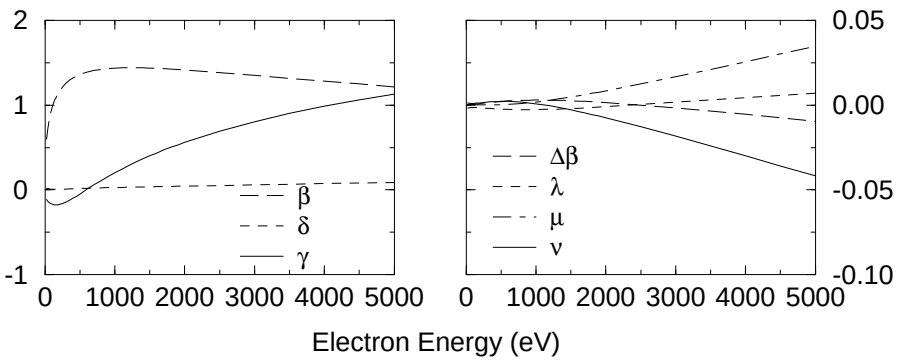
$2s$ shell of Kr $E_b = 1920.4$ (eV) (δ negligible for ns shells)

E (eV)	ω (eV)	β	γ	$\Delta\beta$	λ	μ	ν
20	1940.4	1.9841	1.0228	0.00491	0.00466	0.00662	-0.01128
40	1960.4	1.9845	1.0722	0.00577	0.00393	0.00559	-0.00952
60	1980.4	1.9850	1.0188	0.00636	0.00336	0.00480	-0.00816
80	2000.4	1.9854	0.9537	0.00638	0.00313	0.00448	-0.00762
100	2020.4	1.9858	0.8899	0.00602	0.00313	0.00448	-0.00761
120	2040.4	1.9861	0.8300	0.00545	0.00326	0.00466	-0.00792
140	2060.4	1.9865	0.7744	0.00474	0.00347	0.00495	-0.00842
160	2080.4	1.9868	0.7229	0.00396	0.00373	0.00532	-0.00904
180	2100.4	1.9871	0.6752	0.00315	0.00402	0.00572	-0.00974
200	2120.4	1.9874	0.6309	0.00231	0.00432	0.00614	-0.01046
250	2170.4	1.9882	0.5331	0.00028	0.00507	0.00720	-0.01227
300	2220.4	1.9888	0.4503	-0.00158	0.00576	0.00816	-0.01393
350	2270.4	1.9894	0.3795	-0.00321	0.00635	0.00898	-0.01533
400	2320.4	1.9900	0.3183	-0.00460	0.00682	0.00964	-0.01646
450	2370.4	1.9905	0.2652	-0.00576	0.00718	0.01015	-0.01733
500	2420.4	1.9911	0.2188	-0.00672	0.00745	0.01052	-0.01797
600	2520.4	1.9920	0.1424	-0.00812	0.00773	0.01092	-0.01865
700	2620.4	1.9928	0.0834	-0.00898	0.00778	0.01097	-0.01875
800	2720.4	1.9936	0.0377	-0.00946	0.00765	0.01079	-0.01844
900	2820.4	1.9943	0.0027	-0.00966	0.00740	0.01045	-0.01785
1000	2920.4	1.9949	-0.0239	-0.00966	0.00709	0.01000	-0.01709
1100	3020.4	1.9954	-0.0435	-0.00952	0.00673	0.00949	-0.01622
1200	3120.4	1.9959	-0.0575	-0.00927	0.00634	0.00895	-0.01529
1300	3220.4	1.9963	-0.0666	-0.00894	0.00594	0.00838	-0.01432
1400	3320.4	1.9967	-0.0717	-0.00857	0.00554	0.00782	-0.01335
1500	3420.4	1.9970	-0.0735	-0.00815	0.00514	0.00726	-0.01240
1600	3520.4	1.9973	-0.0724	-0.00771	0.00475	0.00671	-0.01146
1700	3620.4	1.9975	-0.0689	-0.00726	0.00437	0.00618	-0.01056
1800	3720.4	1.9977	-0.0633	-0.00680	0.00401	0.00568	-0.00969
1900	3820.4	1.9979	-0.0559	-0.00633	0.00367	0.00519	-0.00887
2000	3920.4	1.9980	-0.0470	-0.00586	0.00335	0.00474	-0.00809
2500	4420.4	1.9982	0.0144	-0.00365	0.00202	0.00287	-0.00489
3000	4920.4	1.9979	0.0924	-0.00174	0.00117	0.00165	-0.00282
3500	5420.4	1.9971	0.1783	-0.00017	0.00074	0.00102	-0.00176
4000	5920.4	1.9960	0.2673	0.00108	0.00066	0.00089	-0.00154
4500	6420.4	1.9946	0.3569	0.00204	0.00088	0.00117	-0.00205
5000	6920.4	1.9931	0.4457	0.00274	0.00135	0.00181	-0.00316



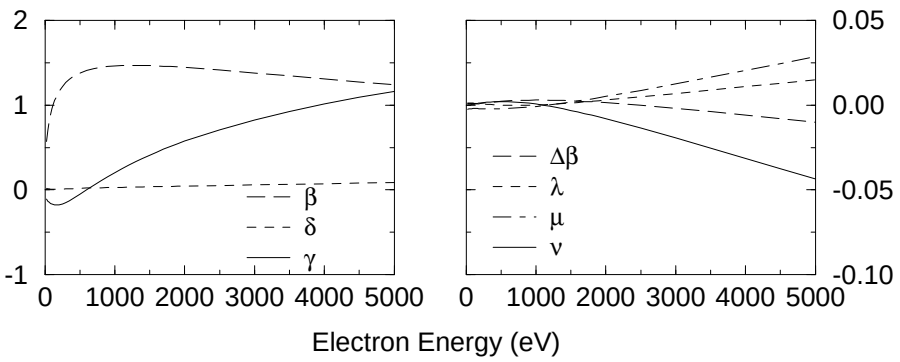
$2p_{1/2}$ shell of Kr $\quad E_b = 1730.9$ (eV)

E (eV)	ω (eV)	β	δ	γ	$\Delta\beta$	λ	μ	ν
20	1750.9	0.5989	0.0193	-0.1142	0.00014	-0.00178	0.00044	0.00134
40	1770.9	0.7223	0.0154	-0.1342	0.00022	-0.00163	0.00043	0.00119
60	1790.9	0.8235	0.0108	-0.1483	0.00031	-0.00150	0.00043	0.00107
80	1810.9	0.9017	0.0080	-0.1591	0.00039	-0.00143	0.00041	0.00102
100	1830.9	0.9640	0.0063	-0.1668	0.00048	-0.00140	0.00038	0.00102
120	1850.9	1.0154	0.0055	-0.1718	0.00057	-0.00140	0.00035	0.00105
140	1870.9	1.0586	0.0051	-0.1747	0.00066	-0.00143	0.00032	0.00111
160	1890.9	1.0957	0.0051	-0.1757	0.00075	-0.00146	0.00028	0.00118
180	1910.9	1.1279	0.0053	-0.1749	0.00084	-0.00151	0.00025	0.00126
200	1930.9	1.1562	0.0056	-0.1727	0.00093	-0.00156	0.00022	0.00134
250	1980.9	1.2138	0.0071	-0.1617	0.00116	-0.00171	0.00015	0.00155
300	2030.9	1.2580	0.0088	-0.1447	0.00139	-0.00186	0.00011	0.00175
350	2080.9	1.2928	0.0107	-0.1236	0.00160	-0.00202	0.00010	0.00192
400	2130.9	1.3207	0.0126	-0.0998	0.00180	-0.00215	0.00011	0.00205
450	2180.9	1.3433	0.0144	-0.0744	0.00199	-0.00228	0.00014	0.00214
500	2230.9	1.3619	0.0160	-0.0481	0.00216	-0.00238	0.00020	0.00218
600	2330.9	1.3900	0.0191	0.0052	0.00245	-0.00255	0.00038	0.00216
700	2430.9	1.4093	0.0217	0.0577	0.00268	-0.00265	0.00065	0.00200
800	2530.9	1.4227	0.0240	0.1082	0.00284	-0.00269	0.00099	0.00170
900	2630.9	1.4316	0.0261	0.1565	0.00294	-0.00269	0.00139	0.00129
1000	2730.9	1.4373	0.0280	0.2025	0.00298	-0.00264	0.00186	0.00079
1100	2830.9	1.4404	0.0298	0.2462	0.00298	-0.00256	0.00237	0.00020
1200	2930.9	1.4417	0.0314	0.2878	0.00293	-0.00245	0.00292	-0.00047
1300	3030.9	1.4414	0.0330	0.3274	0.00285	-0.00232	0.00352	-0.00120
1400	3130.9	1.4399	0.0346	0.3651	0.00273	-0.00216	0.00415	-0.00198
1500	3230.9	1.4374	0.0361	0.4012	0.00258	-0.00199	0.00480	-0.00281
1600	3330.9	1.4341	0.0376	0.4358	0.00240	-0.00180	0.00549	-0.00369
1700	3430.9	1.4302	0.0391	0.4689	0.00221	-0.00159	0.00620	-0.00460
1800	3530.9	1.4257	0.0406	0.5007	0.00199	-0.00138	0.00692	-0.00555
1900	3630.9	1.4207	0.0420	0.5312	0.00175	-0.00115	0.00767	-0.00652
2000	3730.9	1.4154	0.0435	0.5606	0.00150	-0.00092	0.00844	-0.00752
2500	4230.9	1.3851	0.0508	0.6929	0.00004	0.00034	0.01245	-0.01280
3000	4730.9	1.3516	0.0582	0.8054	-0.00165	0.00168	0.01670	-0.01838
3500	5230.9	1.3172	0.0657	0.9028	-0.00350	0.00304	0.02109	-0.02413
4000	5730.9	1.2830	0.0734	0.9882	-0.00544	0.00438	0.02557	-0.02996
4500	6230.9	1.2495	0.0811	1.0639	-0.00746	0.00569	0.03012	-0.03581
5000	6730.9	1.2170	0.0889	1.1315	-0.00954	0.00695	0.03470	-0.04165



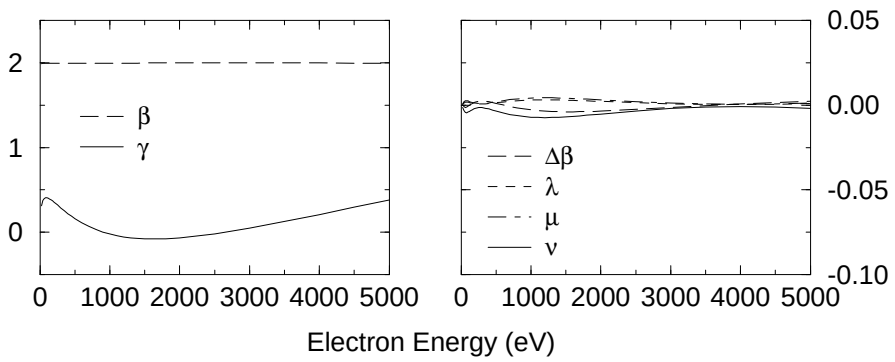
$2p_{3/2}$ shell of Kr $E_b = 1679.1$ (eV)

E (eV)	ω (eV)	β	δ	γ	$\Delta\beta$	λ	μ	ν
20	1699.1	0.5732	0.0190	-0.1109	0.00013	0.00107	-0.00233	0.00127
40	1719.1	0.7017	0.0152	-0.1324	0.00021	0.00110	-0.00222	0.00111
60	1739.1	0.8078	0.0107	-0.1477	0.00030	0.00114	-0.00213	0.00099
80	1759.1	0.8900	0.0080	-0.1596	0.00038	0.00114	-0.00207	0.00093
100	1779.1	0.9558	0.0066	-0.1681	0.00047	0.00112	-0.00205	0.00093
120	1799.1	1.0100	0.0059	-0.1739	0.00056	0.00108	-0.00204	0.00096
140	1819.1	1.0558	0.0056	-0.1775	0.00065	0.00103	-0.00204	0.00101
160	1839.1	1.0950	0.0057	-0.1790	0.00075	0.00097	-0.00205	0.00108
180	1859.1	1.1292	0.0060	-0.1787	0.00084	0.00091	-0.00206	0.00116
200	1879.1	1.1593	0.0065	-0.1769	0.00094	0.00084	-0.00208	0.00124
250	1929.1	1.2206	0.0082	-0.1665	0.00117	0.00067	-0.00212	0.00145
300	1979.1	1.2678	0.0101	-0.1498	0.00139	0.00051	-0.00215	0.00165
350	2029.1	1.3051	0.0121	-0.1287	0.00161	0.00036	-0.00217	0.00181
400	2079.1	1.3351	0.0141	-0.1047	0.00181	0.00023	-0.00217	0.00194
450	2129.1	1.3595	0.0159	-0.0790	0.00200	0.00012	-0.00215	0.00203
500	2179.1	1.3796	0.0176	-0.0522	0.00218	0.00003	-0.00211	0.00208
600	2279.1	1.4102	0.0206	0.0022	0.00247	-0.00008	-0.00197	0.00205
700	2379.1	1.4315	0.0232	0.0559	0.00269	-0.00011	-0.00176	0.00188
800	2479.1	1.4464	0.0255	0.1078	0.00285	-0.00008	-0.00148	0.00157
900	2579.1	1.4566	0.0275	0.1575	0.00295	0.00000	-0.00114	0.00114
1000	2679.1	1.4633	0.0293	0.2048	0.00299	0.00013	-0.00075	0.00062
1100	2779.1	1.4673	0.0309	0.2498	0.00298	0.00031	-0.00031	0.00000
1200	2879.1	1.4692	0.0325	0.2926	0.00292	0.00051	0.00017	-0.00069
1300	2979.1	1.4695	0.0340	0.3335	0.00283	0.00075	0.00069	-0.00144
1400	3079.1	1.4685	0.0354	0.3724	0.00270	0.00101	0.00125	-0.00226
1500	3179.1	1.4664	0.0369	0.4097	0.00254	0.00130	0.00183	-0.00313
1600	3279.1	1.4634	0.0382	0.4453	0.00235	0.00160	0.00244	-0.00404
1700	3379.1	1.4597	0.0396	0.4795	0.00214	0.00192	0.00307	-0.00499
1800	3479.1	1.4553	0.0410	0.5123	0.00191	0.00225	0.00372	-0.00597
1900	3579.1	1.4505	0.0424	0.5439	0.00166	0.00260	0.00438	-0.00698
2000	3679.1	1.4453	0.0437	0.5743	0.00140	0.00296	0.00507	-0.00802
2500	4179.1	1.4148	0.0507	0.7108	-0.00013	0.00485	0.00866	-0.01352
3000	4679.1	1.3805	0.0578	0.8267	-0.00189	0.00686	0.01248	-0.01933
3500	5179.1	1.3449	0.0652	0.9268	-0.00381	0.00890	0.01642	-0.02531
4000	5679.1	1.3092	0.0727	1.0144	-0.00582	0.01093	0.02044	-0.03137
4500	6179.1	1.2741	0.0805	1.0917	-0.00791	0.01294	0.02451	-0.03744
5000	6679.1	1.2398	0.0883	1.1605	-0.01005	0.01490	0.02860	-0.04350



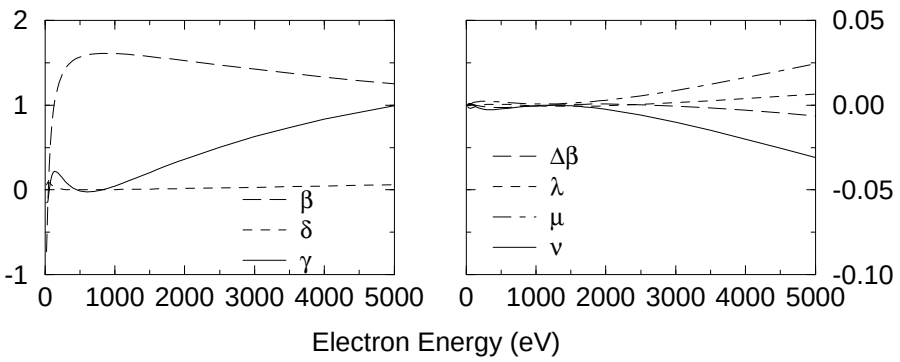
$3s$ shell of Kr $E_b = 293.1$ (eV) (δ negligible for ns shells)

E (eV)	ω (eV)	β	γ	$\Delta\beta$	λ	μ	ν
20	313.1	1.9911	0.3118	0.00025	0.00053	0.00078	-0.00132
40	333.1	1.9914	0.3773	-0.00086	0.00135	0.00193	-0.00327
60	353.1	1.9918	0.3989	-0.00138	0.00181	0.00257	-0.00439
80	373.1	1.9920	0.4060	-0.00120	0.00186	0.00265	-0.00451
100	393.1	1.9922	0.4054	-0.00070	0.00172	0.00244	-0.00416
120	413.1	1.9923	0.4000	-0.00010	0.00151	0.00215	-0.00365
140	433.1	1.9924	0.3915	0.00047	0.00129	0.00184	-0.00313
160	453.1	1.9925	0.3809	0.00099	0.00109	0.00156	-0.00265
180	473.1	1.9926	0.3689	0.00142	0.00092	0.00133	-0.00225
200	493.1	1.9927	0.3560	0.00177	0.00079	0.00115	-0.00194
250	543.1	1.9928	0.3215	0.00230	0.00062	0.00090	-0.00152
300	593.1	1.9930	0.2865	0.00244	0.00062	0.00091	-0.00152
350	643.1	1.9931	0.2523	0.00229	0.00074	0.00108	-0.00182
400	693.1	1.9933	0.2198	0.00197	0.00094	0.00135	-0.00229
450	743.1	1.9934	0.1892	0.00154	0.00117	0.00168	-0.00285
500	793.1	1.9936	0.1608	0.00107	0.00141	0.00202	-0.00344
600	893.1	1.9939	0.1101	0.00008	0.00188	0.00268	-0.00457
700	993.1	1.9942	0.0673	-0.00084	0.00228	0.00324	-0.00553
800	1093.1	1.9946	0.0317	-0.00163	0.00259	0.00368	-0.00627
900	1193.1	1.9949	0.0023	-0.00229	0.00281	0.00399	-0.00680
1000	1293.1	1.9953	-0.0215	-0.00281	0.00295	0.00418	-0.00714
1100	1393.1	1.9956	-0.0404	-0.00321	0.00303	0.00429	-0.00732
1200	1493.1	1.9959	-0.0550	-0.00351	0.00305	0.00431	-0.00736
1300	1593.1	1.9962	-0.0659	-0.00371	0.00302	0.00428	-0.00730
1400	1693.1	1.9965	-0.0734	-0.00384	0.00296	0.00419	-0.00714
1500	1793.1	1.9968	-0.0780	-0.00391	0.00287	0.00406	-0.00692
1600	1893.1	1.9970	-0.0800	-0.00391	0.00275	0.00390	-0.00665
1700	1993.1	1.9972	-0.0797	-0.00387	0.00262	0.00371	-0.00633
1800	2093.1	1.9974	-0.0773	-0.00379	0.00248	0.00351	-0.00599
1900	2193.1	1.9976	-0.0731	-0.00368	0.00233	0.00330	-0.00563
2000	2293.1	1.9977	-0.0674	-0.00353	0.00217	0.00309	-0.00526
2500	2793.1	1.9982	-0.0201	-0.00256	0.00142	0.00202	-0.00344
3000	3293.1	1.9981	0.0473	-0.00140	0.00082	0.00117	-0.00199
3500	3793.1	1.9977	0.1256	-0.00027	0.00046	0.00065	-0.00112
4000	4293.1	1.9968	0.2091	0.00073	0.00036	0.00049	-0.00085
4500	4793.1	1.9958	0.2948	0.00156	0.00050	0.00067	-0.00117
5000	5293.1	1.9944	0.3808	0.00221	0.00086	0.00116	-0.00202



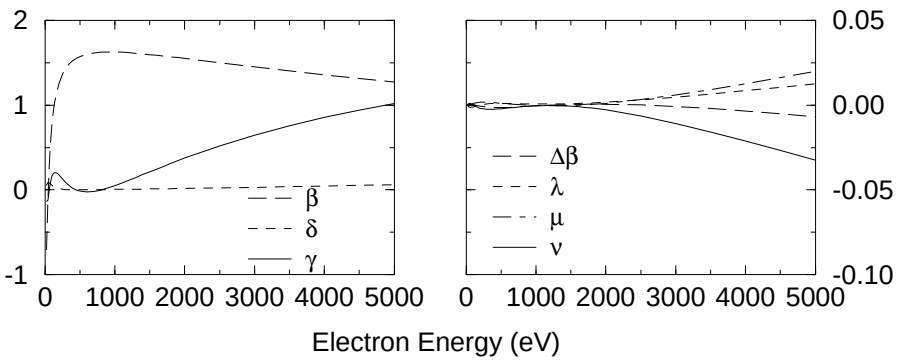
$3p_{1/2}$ shell of Kr $\quad E_b = 222.4$ (eV)

E (eV)	ω (eV)	β	δ	γ	$\Delta\beta$	λ	μ	ν
20	242.4	-0.7318	0.0598	-0.1495	-0.00004	-0.00087	0.00033	0.00054
40	262.4	-0.1501	0.0899	-0.1390	0.00025	-0.00154	0.00043	0.00110
60	282.4	0.2728	0.0869	-0.0084	0.00042	-0.00180	0.00074	0.00106
80	302.4	0.5643	0.0715	0.1042	0.00041	-0.00170	0.00107	0.00062
100	322.4	0.7718	0.0562	0.1722	0.00030	-0.00146	0.00138	0.00008
120	342.4	0.9247	0.0438	0.2060	0.00013	-0.00118	0.00164	-0.00046
140	362.4	1.0411	0.0340	0.2175	-0.00005	-0.00091	0.00185	-0.00095
160	382.4	1.1320	0.0265	0.2150	-0.00023	-0.00065	0.00202	-0.00136
180	402.4	1.2045	0.0207	0.2040	-0.00040	-0.00043	0.00214	-0.00171
200	422.4	1.2634	0.0162	0.1882	-0.00056	-0.00024	0.00222	-0.00199
250	472.4	1.3704	0.0087	0.1406	-0.00089	0.00013	0.00232	-0.00245
300	522.4	1.4409	0.0045	0.0941	-0.00113	0.00035	0.00230	-0.00266
350	572.4	1.4897	0.0022	0.0551	-0.00130	0.00047	0.00222	-0.00269
400	622.4	1.5244	0.0010	0.0249	-0.00139	0.00052	0.00209	-0.00261
450	672.4	1.5498	0.0003	0.0031	-0.00144	0.00051	0.00194	-0.00246
500	722.4	1.5684	0.0001	-0.0114	-0.00144	0.00047	0.00178	-0.00226
600	822.4	1.5922	0.0004	-0.0232	-0.00135	0.00033	0.00147	-0.00180
700	922.4	1.6045	0.0011	-0.0184	-0.00117	0.00015	0.00120	-0.00134
800	1022.4	1.6098	0.0019	-0.0029	-0.00095	-0.00004	0.00097	-0.00093
900	1122.4	1.6104	0.0029	0.0195	-0.00071	-0.00022	0.00081	-0.00059
1000	1222.4	1.6079	0.0039	0.0464	-0.00048	-0.00038	0.00072	-0.00034
1100	1322.4	1.6033	0.0049	0.0760	-0.00026	-0.00050	0.00068	-0.00018
1200	1422.4	1.5971	0.0060	0.1073	-0.00005	-0.00060	0.00072	-0.00011
1300	1522.4	1.5898	0.0071	0.1396	0.00013	-0.00067	0.00081	-0.00014
1400	1622.4	1.5817	0.0082	0.1722	0.00028	-0.00071	0.00096	-0.00025
1500	1722.4	1.5730	0.0094	0.2049	0.00040	-0.00072	0.00116	-0.00045
1600	1822.4	1.5638	0.0105	0.2373	0.00050	-0.00070	0.00142	-0.00072
1700	1922.4	1.5543	0.0117	0.2694	0.00057	-0.00066	0.00172	-0.00106
1800	2022.4	1.5445	0.0130	0.3010	0.00061	-0.00059	0.00207	-0.00147
1900	2122.4	1.5346	0.0142	0.3321	0.00063	-0.00050	0.00245	-0.00195
2000	2222.4	1.5246	0.0155	0.3624	0.00062	-0.00040	0.00288	-0.00248
2500	2722.4	1.4742	0.0223	0.5039	0.00025	0.00038	0.00547	-0.00586
3000	3222.4	1.4248	0.0297	0.6282	-0.00057	0.00143	0.00867	-0.01011
3500	3722.4	1.3777	0.0375	0.7369	-0.00171	0.00264	0.01228	-0.01492
4000	4222.4	1.3330	0.0455	0.8324	-0.00310	0.00391	0.01616	-0.02006
4500	4722.4	1.2909	0.0538	0.9166	-0.00467	0.00519	0.02022	-0.02541
5000	5222.4	1.2513	0.0621	0.9915	-0.00637	0.00645	0.02441	-0.03086



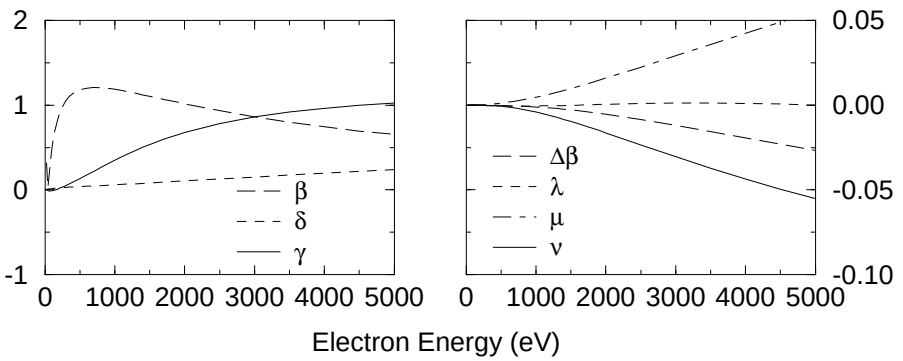
$3p_{3/2}$ shell of Kr $\quad E_b = 214.8$ (eV)

E (eV)	ω (eV)	β	δ	γ	$\Delta\beta$	λ	μ	ν
20	234.8	-0.7044	0.0561	-0.1375	-0.00003	-0.00042	-0.00007	0.00049
40	254.8	-0.1379	0.0849	-0.1270	0.00022	-0.00103	0.00004	0.00099
60	274.8	0.2742	0.0825	-0.0065	0.00036	-0.00129	0.00033	0.00096
80	294.8	0.5594	0.0682	0.0977	0.00034	-0.00122	0.00064	0.00058
100	314.8	0.7636	0.0538	0.1609	0.00022	-0.00101	0.00093	0.00008
120	334.8	0.9150	0.0419	0.1923	0.00005	-0.00076	0.00117	-0.00041
140	354.8	1.0310	0.0326	0.2028	-0.00013	-0.00050	0.00136	-0.00086
160	374.8	1.1222	0.0254	0.2003	-0.00030	-0.00026	0.00151	-0.00125
180	394.8	1.1953	0.0198	0.1898	-0.00047	-0.00004	0.00161	-0.00158
200	414.8	1.2551	0.0154	0.1746	-0.00062	0.00016	0.00169	-0.00184
250	464.8	1.3647	0.0082	0.1291	-0.00093	0.00053	0.00175	-0.00229
300	514.8	1.4380	0.0043	0.0847	-0.00116	0.00078	0.00170	-0.00249
350	564.8	1.4894	0.0022	0.0474	-0.00130	0.00094	0.00159	-0.00253
400	614.8	1.5266	0.0012	0.0187	-0.00139	0.00102	0.00143	-0.00246
450	664.8	1.5541	0.0008	-0.0018	-0.00142	0.00106	0.00125	-0.00232
500	714.8	1.5747	0.0007	-0.0153	-0.00141	0.00106	0.00107	-0.00213
600	814.8	1.6019	0.0013	-0.0252	-0.00131	0.00101	0.00070	-0.00170
700	914.8	1.6171	0.0021	-0.0191	-0.00112	0.00091	0.00036	-0.00127
800	1014.8	1.6247	0.0031	-0.0023	-0.00090	0.00082	0.00007	-0.00089
900	1114.8	1.6273	0.0042	0.0212	-0.00066	0.00073	-0.00016	-0.00057
1000	1214.8	1.6265	0.0052	0.0491	-0.00043	0.00067	-0.00032	-0.00035
1100	1314.8	1.6232	0.0063	0.0798	-0.00021	0.00064	-0.00042	-0.00022
1200	1414.8	1.6183	0.0074	0.1120	-0.00001	0.00064	-0.00046	-0.00018
1300	1514.8	1.6120	0.0085	0.1452	0.00016	0.00067	-0.00044	-0.00023
1400	1614.8	1.6047	0.0096	0.1787	0.00030	0.00074	-0.00036	-0.00038
1500	1714.8	1.5967	0.0107	0.2123	0.00042	0.00083	-0.00023	-0.00060
1600	1814.8	1.5882	0.0118	0.2456	0.00050	0.00096	-0.00005	-0.00091
1700	1914.8	1.5793	0.0130	0.2786	0.00056	0.00111	0.00018	-0.00129
1800	2014.8	1.5700	0.0142	0.3110	0.00059	0.00128	0.00045	-0.00173
1900	2114.8	1.5605	0.0154	0.3428	0.00059	0.00148	0.00076	-0.00224
2000	2214.8	1.5508	0.0166	0.3740	0.00057	0.00171	0.00110	-0.00281
2500	2714.8	1.5011	0.0231	0.5192	0.00013	0.00308	0.00330	-0.00638
3000	3214.8	1.4517	0.0302	0.6465	-0.00076	0.00476	0.00608	-0.01084
3500	3714.8	1.4038	0.0378	0.7578	-0.00198	0.00661	0.00925	-0.01586
4000	4214.8	1.3580	0.0457	0.8553	-0.00344	0.00855	0.01267	-0.02122
4500	4714.8	1.3146	0.0539	0.9412	-0.00508	0.01052	0.01626	-0.02678
5000	5214.8	1.2733	0.0622	1.0172	-0.00686	0.01247	0.01996	-0.03243



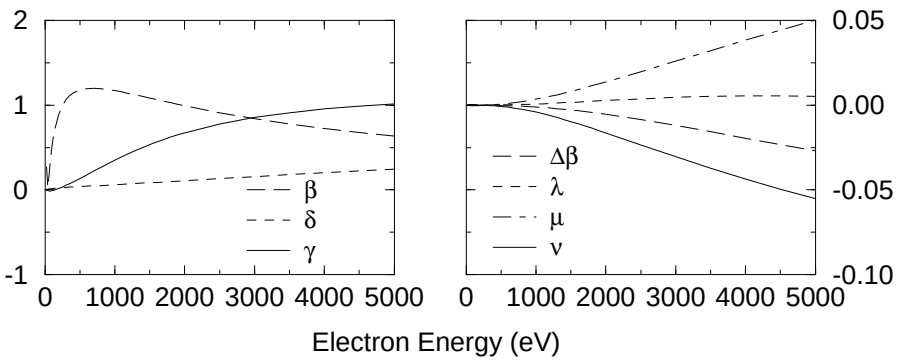
$3d_{3/2}$ shell of Kr $\quad E_b = 95.4$ (eV)

E (eV)	ω (eV)	β	δ	γ	$\Delta\beta$	λ	μ	ν
20	115.4	0.3185	0.0064	-0.0003	0.00000	0.00002	-0.00004	0.00002
40	135.4	0.0302	0.0084	-0.0102	-0.00001	-0.00001	-0.00004	0.00004
60	155.4	0.1802	0.0106	-0.0127	-0.00001	-0.00002	-0.00003	0.00006
80	175.4	0.3458	0.0129	-0.0124	-0.00001	-0.00004	-0.00003	0.00007
100	195.4	0.4845	0.0151	-0.0102	-0.00001	-0.00006	-0.00001	0.00007
120	215.4	0.5971	0.0172	-0.0065	-0.00001	-0.00008	0.00001	0.00007
140	235.4	0.6889	0.0191	-0.0017	-0.00001	-0.00010	0.00003	0.00007
160	255.4	0.7647	0.0208	0.0038	-0.00002	-0.00012	0.00006	0.00006
180	275.4	0.8279	0.0223	0.0098	-0.00002	-0.00014	0.00009	0.00005
200	295.4	0.8812	0.0237	0.0162	-0.00003	-0.00017	0.00013	0.00003
250	345.4	0.9827	0.0268	0.0334	-0.00006	-0.00022	0.00024	-0.00003
300	395.4	1.0528	0.0294	0.0517	-0.00009	-0.00026	0.00038	-0.00012
350	445.4	1.1025	0.0318	0.0709	-0.00012	-0.00031	0.00054	-0.00023
400	495.4	1.1380	0.0341	0.0909	-0.00016	-0.00035	0.00072	-0.00037
450	545.4	1.1633	0.0363	0.1114	-0.00020	-0.00039	0.00092	-0.00054
500	595.4	1.1812	0.0384	0.1326	-0.00024	-0.00042	0.00115	-0.00073
600	695.4	1.2013	0.0426	0.1759	-0.00035	-0.00048	0.00167	-0.00119
700	795.4	1.2076	0.0467	0.2200	-0.00048	-0.00051	0.00228	-0.00177
800	895.4	1.2053	0.0510	0.2640	-0.00065	-0.00053	0.00298	-0.00244
900	995.4	1.1975	0.0552	0.3073	-0.00085	-0.00053	0.00375	-0.00323
1000	1095.4	1.1859	0.0596	0.3494	-0.00109	-0.00050	0.00460	-0.00410
1100	1195.4	1.1719	0.0640	0.3901	-0.00136	-0.00045	0.00552	-0.00507
1200	1295.4	1.1563	0.0684	0.4290	-0.00167	-0.00039	0.00650	-0.00611
1300	1395.4	1.1396	0.0729	0.4662	-0.00202	-0.00031	0.00753	-0.00723
1400	1495.4	1.1222	0.0774	0.5015	-0.00241	-0.00022	0.00862	-0.00840
1500	1595.4	1.1045	0.0820	0.5351	-0.00283	-0.00011	0.00975	-0.00964
1600	1695.4	1.0866	0.0866	0.5668	-0.00328	0.00000	0.01091	-0.01091
1700	1795.4	1.0687	0.0912	0.5968	-0.00377	0.00011	0.01211	-0.01223
1800	1895.4	1.0510	0.0958	0.6250	-0.00428	0.00023	0.01334	-0.01358
1900	1995.4	1.0333	0.1005	0.6517	-0.00481	0.00035	0.01459	-0.01495
2000	2095.4	1.0160	0.1051	0.6769	-0.00537	0.00047	0.01587	-0.01634
2500	2595.4	0.9341	0.1283	0.7823	-0.00847	0.00099	0.02244	-0.02343
3000	3095.4	0.8616	0.1512	0.8605	-0.01189	0.00130	0.02915	-0.03045
3500	3595.4	0.7983	0.1736	0.9190	-0.01550	0.00134	0.03584	-0.03718
4000	4095.4	0.7432	0.1953	0.9634	-0.01921	0.00110	0.04243	-0.04354
4500	4595.4	0.6952	0.2164	0.9975	-0.02294	0.00060	0.04891	-0.04951
5000	5095.4	0.6533	0.2369	1.0241	-0.02668	-0.00013	0.05526	-0.05512



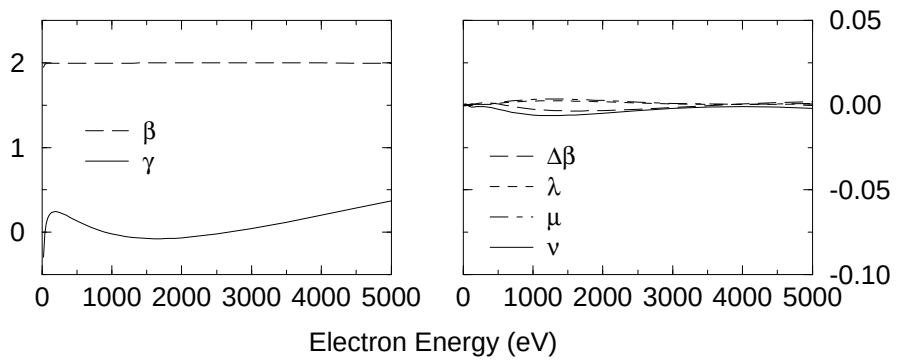
$3d_{5/2}$ shell of Kr $\quad E_b = 94.2$ (eV)

E (eV)	ω (eV)	β	δ	γ	$\Delta\beta$	λ	μ	ν
20	114.2	0.2690	0.0067	-0.0010	0.00000	0.00012	-0.00013	0.00002
40	134.2	0.0260	0.0086	-0.0106	-0.00001	0.00016	-0.00021	0.00004
60	154.2	0.1922	0.0107	-0.0128	-0.00001	0.00018	-0.00023	0.00006
80	174.2	0.3635	0.0129	-0.0122	-0.00001	0.00018	-0.00025	0.00007
100	194.2	0.5039	0.0151	-0.0097	-0.00001	0.00018	-0.00025	0.00007
120	214.2	0.6166	0.0172	-0.0058	-0.00001	0.00018	-0.00025	0.00007
140	234.2	0.7078	0.0190	-0.0008	-0.00001	0.00018	-0.00025	0.00007
160	254.2	0.7826	0.0207	0.0049	-0.00002	0.00018	-0.00024	0.00006
180	274.2	0.8446	0.0222	0.0112	-0.00002	0.00017	-0.00022	0.00005
200	294.2	0.8966	0.0236	0.0177	-0.00003	0.00017	-0.00020	0.00003
250	344.2	0.9946	0.0266	0.0352	-0.00006	0.00017	-0.00014	-0.00004
300	394.2	1.0614	0.0293	0.0538	-0.00009	0.00018	-0.00005	-0.00013
350	444.2	1.1079	0.0317	0.0731	-0.00012	0.00018	0.00006	-0.00025
400	494.2	1.1406	0.0340	0.0932	-0.00016	0.00020	0.00020	-0.00039
450	544.2	1.1634	0.0362	0.1138	-0.00020	0.00021	0.00035	-0.00056
500	594.2	1.1789	0.0383	0.1349	-0.00025	0.00023	0.00053	-0.00076
600	694.2	1.1951	0.0426	0.1782	-0.00036	0.00028	0.00095	-0.00123
700	794.2	1.1982	0.0470	0.2220	-0.00050	0.00035	0.00146	-0.00181
800	894.2	1.1933	0.0513	0.2656	-0.00066	0.00044	0.00206	-0.00250
900	994.2	1.1833	0.0558	0.3085	-0.00087	0.00055	0.00273	-0.00328
1000	1094.2	1.1700	0.0603	0.3501	-0.00111	0.00068	0.00348	-0.00416
1100	1194.2	1.1546	0.0650	0.3902	-0.00138	0.00084	0.00429	-0.00513
1200	1294.2	1.1378	0.0696	0.4286	-0.00170	0.00101	0.00517	-0.00618
1300	1394.2	1.1201	0.0743	0.4653	-0.00206	0.00119	0.00610	-0.00730
1400	1494.2	1.1019	0.0791	0.5001	-0.00245	0.00139	0.00708	-0.00847
1500	1594.2	1.0835	0.0839	0.5331	-0.00287	0.00160	0.00811	-0.00971
1600	1694.2	1.0651	0.0887	0.5643	-0.00333	0.00181	0.00917	-0.01098
1700	1794.2	1.0468	0.0935	0.5938	-0.00382	0.00203	0.01027	-0.01230
1800	1894.2	1.0287	0.0984	0.6217	-0.00434	0.00225	0.01139	-0.01365
1900	1994.2	1.0108	0.1032	0.6479	-0.00488	0.00248	0.01254	-0.01502
2000	2094.2	0.9932	0.1081	0.6726	-0.00545	0.00270	0.01371	-0.01641
2500	2594.2	0.9111	0.1323	0.7764	-0.00858	0.00373	0.01977	-0.02350
3000	3094.2	0.8392	0.1561	0.8535	-0.01206	0.00455	0.02597	-0.03052
3500	3594.2	0.7768	0.1793	0.9114	-0.01572	0.00510	0.03216	-0.03726
4000	4094.2	0.7229	0.2018	0.9555	-0.01948	0.00537	0.03827	-0.04364
4500	4594.2	0.6762	0.2235	0.9896	-0.02328	0.00537	0.04427	-0.04964
5000	5094.2	0.6357	0.2446	1.0166	-0.02709	0.00514	0.05015	-0.05529



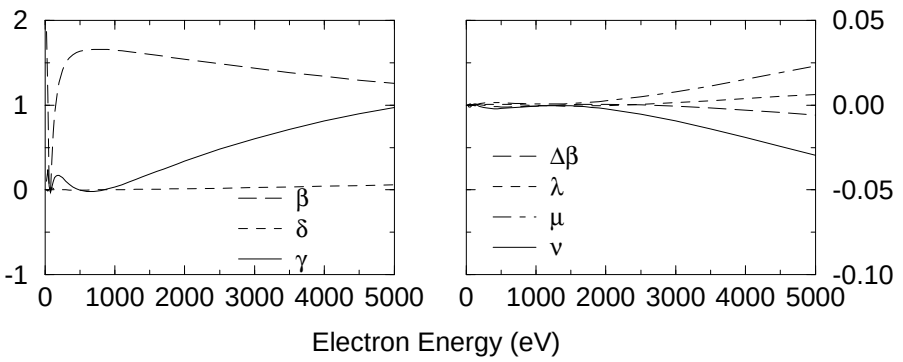
$4s$ shell of Kr $E_b = 27.5$ (eV) (δ negligible for ns shells)

E (eV)	ω (eV)	β	γ	$\Delta\beta$	λ	μ	ν
20	47.5	1.9439	-0.2953	0.00062	0.00027	0.00040	-0.00067
40	67.5	1.9817	-0.0121	0.00046	-0.00026	-0.00035	0.00061
60	87.5	1.9886	0.0990	0.00012	-0.00001	0.00000	0.00001
80	107.5	1.9911	0.1590	-0.00011	0.00024	0.00035	-0.00060
100	127.5	1.9924	0.1953	-0.00015	0.00039	0.00056	-0.00095
120	147.5	1.9931	0.2181	-0.00004	0.00045	0.00065	-0.00110
140	167.5	1.9935	0.2322	0.00016	0.00046	0.00066	-0.00111
160	187.5	1.9938	0.2401	0.00039	0.00043	0.00062	-0.00105
180	207.5	1.9940	0.2437	0.00063	0.00039	0.00057	-0.00097
200	227.5	1.9941	0.2441	0.00086	0.00036	0.00052	-0.00088
250	277.5	1.9943	0.2356	0.00129	0.00030	0.00044	-0.00074
300	327.5	1.9944	0.2193	0.00150	0.00032	0.00048	-0.00080
350	377.5	1.9945	0.1993	0.00150	0.00042	0.00062	-0.00104
400	427.5	1.9945	0.1776	0.00135	0.00058	0.00083	-0.00141
450	477.5	1.9946	0.1557	0.00109	0.00076	0.00110	-0.00186
500	527.5	1.9947	0.1342	0.00077	0.00097	0.00139	-0.00236
600	627.5	1.9948	0.0940	0.00004	0.00138	0.00197	-0.00335
700	727.5	1.9951	0.0584	-0.00068	0.00175	0.00248	-0.00422
800	827.5	1.9953	0.0279	-0.00132	0.00204	0.00289	-0.00494
900	927.5	1.9955	0.0021	-0.00187	0.00226	0.00321	-0.00547
1000	1027.5	1.9958	-0.0193	-0.00233	0.00242	0.00343	-0.00585
1100	1127.5	1.9960	-0.0367	-0.00269	0.00252	0.00357	-0.00608
1200	1227.5	1.9962	-0.0503	-0.00296	0.00256	0.00363	-0.00620
1300	1327.5	1.9965	-0.0607	-0.00316	0.00257	0.00364	-0.00621
1400	1427.5	1.9967	-0.0682	-0.00330	0.00254	0.00360	-0.00614
1500	1527.5	1.9969	-0.0729	-0.00338	0.00249	0.00352	-0.00601
1600	1627.5	1.9971	-0.0752	-0.00341	0.00241	0.00341	-0.00582
1700	1727.5	1.9973	-0.0754	-0.00340	0.00231	0.00327	-0.00558
1800	1827.5	1.9975	-0.0737	-0.00335	0.00220	0.00312	-0.00532
1900	1927.5	1.9976	-0.0701	-0.00327	0.00208	0.00295	-0.00503
2000	2027.5	1.9978	-0.0650	-0.00316	0.00195	0.00277	-0.00473
2500	2527.5	1.9982	-0.0211	-0.00235	0.00131	0.00186	-0.00317
3000	3027.5	1.9981	0.0435	-0.00131	0.00077	0.00109	-0.00186
3500	3527.5	1.9977	0.1197	-0.00026	0.00043	0.00061	-0.00104
4000	4027.5	1.9969	0.2019	0.00069	0.00033	0.00045	-0.00078
4500	4527.5	1.9959	0.2867	0.00149	0.00046	0.00062	-0.00108
5000	5027.5	1.9946	0.3720	0.00213	0.00081	0.00109	-0.00191



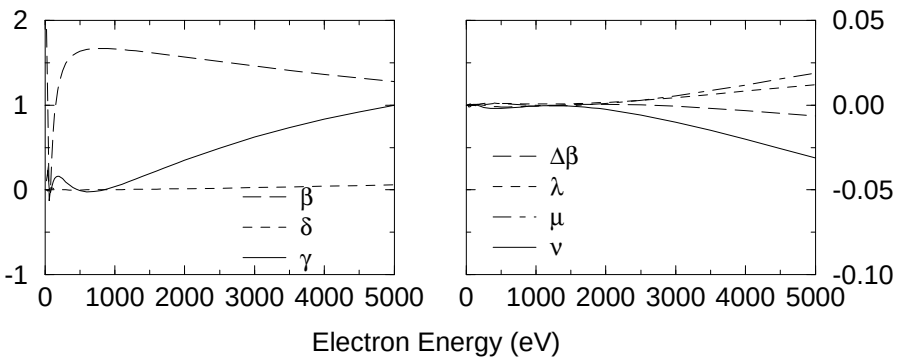
$4p_{1/2}$ shell of Kr $\quad E_b = 14.7$ (eV)

E (eV)	ω (eV)	β	δ	γ	$\Delta\beta$	λ	μ	ν
20	34.7	1.8702	-0.0020	0.1018	0.00005	0.00004	0.00013	-0.00017
40	54.7	1.1080	-0.0127	0.2372	0.00010	0.00056	0.00056	-0.00112
60	74.7	-0.0173	0.0060	0.0405	0.00008	0.00079	0.00036	-0.00115
80	94.7	-0.0151	0.0223	-0.0296	0.00029	0.00027	-0.00004	-0.00023
100	114.7	0.3542	0.0230	0.0331	0.00050	-0.00014	-0.00008	0.00022
120	134.7	0.6680	0.0190	0.0992	0.00059	-0.00031	0.00006	0.00025
140	154.7	0.8940	0.0146	0.1424	0.00059	-0.00034	0.00027	0.00007
160	174.7	1.0565	0.0109	0.1648	0.00052	-0.00030	0.00049	-0.00019
180	194.7	1.1762	0.0079	0.1725	0.00042	-0.00021	0.00069	-0.00048
200	214.7	1.2667	0.0055	0.1702	0.00030	-0.00011	0.00087	-0.00076
250	264.7	1.4160	0.0018	0.1421	-0.00003	0.00014	0.00121	-0.00136
300	314.7	1.5037	0.0000	0.1034	-0.00034	0.00034	0.00142	-0.00176
350	364.7	1.5589	-0.0009	0.0665	-0.00059	0.00048	0.00151	-0.00199
400	414.7	1.5951	-0.0012	0.0358	-0.00078	0.00055	0.00154	-0.00209
450	464.7	1.6194	-0.0012	0.0122	-0.00092	0.00058	0.00151	-0.00209
500	514.7	1.6358	-0.0011	-0.0045	-0.00101	0.00057	0.00145	-0.00201
600	614.7	1.6538	-0.0006	-0.0209	-0.00106	0.00047	0.00127	-0.00174
700	714.7	1.6600	0.0001	-0.0204	-0.00100	0.00032	0.00108	-0.00140
800	814.7	1.6596	0.0009	-0.0087	-0.00087	0.00016	0.00090	-0.00106
900	914.7	1.6553	0.0016	0.0105	-0.00070	-0.00001	0.00077	-0.00076
1000	1014.7	1.6484	0.0024	0.0346	-0.00052	-0.00015	0.00067	-0.00052
1100	1114.7	1.6400	0.0033	0.0618	-0.00034	-0.00028	0.00063	-0.00035
1200	1214.7	1.6306	0.0042	0.0911	-0.00017	-0.00038	0.00064	-0.00026
1300	1314.7	1.6204	0.0051	0.1216	-0.00001	-0.00046	0.00070	-0.00025
1400	1414.7	1.6098	0.0061	0.1527	0.00013	-0.00051	0.00082	-0.00031
1500	1514.7	1.5989	0.0071	0.1842	0.00025	-0.00053	0.00098	-0.00045
1600	1614.7	1.5878	0.0082	0.2157	0.00034	-0.00053	0.00120	-0.00067
1700	1714.7	1.5766	0.0093	0.2470	0.00042	-0.00050	0.00145	-0.00095
1800	1814.7	1.5653	0.0104	0.2780	0.00047	-0.00046	0.00176	-0.00130
1900	1914.7	1.5541	0.0116	0.3086	0.00049	-0.00039	0.00210	-0.00171
2000	2014.7	1.5429	0.0128	0.3386	0.00050	-0.00030	0.00248	-0.00218
2500	2514.7	1.4878	0.0193	0.4798	0.00022	0.00040	0.00486	-0.00527
3000	3014.7	1.4354	0.0265	0.6049	-0.00051	0.00140	0.00790	-0.00930
3500	3514.7	1.3861	0.0342	0.7151	-0.00155	0.00256	0.01136	-0.01392
4000	4014.7	1.3398	0.0422	0.8119	-0.00288	0.00383	0.01514	-0.01898
4500	4514.7	1.2964	0.0505	0.8975	-0.00436	0.00509	0.01911	-0.02421
5000	5014.7	1.2558	0.0589	0.9733	-0.00601	0.00633	0.02323	-0.02956



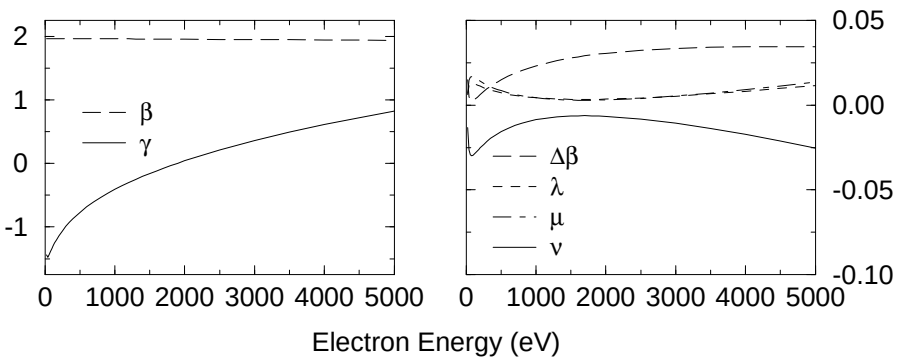
$4p_{3/2}$ shell of Kr $\quad E_b = 14.0$ (eV)

E (eV)	ω (eV)	β	δ	γ	$\Delta\beta$	λ	μ	ν
20	34.0	1.8943	-0.0025	0.1071	0.00005	0.00005	0.00013	-0.00018
40	54.0	0.9471	-0.0148	0.2303	0.00011	0.00058	0.00056	-0.00114
60	74.0	-0.1276	0.0075	0.0151	0.00011	0.00070	0.00025	-0.00096
80	94.0	0.0178	0.0228	-0.0281	0.00031	0.00023	-0.00012	-0.00011
100	114.0	0.3950	0.0231	0.0364	0.00048	-0.00009	-0.00015	0.00023
120	134.0	0.6912	0.0191	0.0972	0.00053	-0.00021	-0.00002	0.00023
140	154.0	0.9030	0.0148	0.1358	0.00051	-0.00021	0.00016	0.00005
160	174.0	1.0563	0.0111	0.1555	0.00044	-0.00015	0.00035	-0.00020
180	194.0	1.1705	0.0081	0.1618	0.00033	-0.00005	0.00052	-0.00047
200	214.0	1.2580	0.0058	0.1590	0.00021	0.00006	0.00068	-0.00073
250	264.0	1.4050	0.0020	0.1314	-0.00012	0.00034	0.00096	-0.00129
300	314.0	1.4938	0.0001	0.0942	-0.00041	0.00056	0.00111	-0.00167
350	364.0	1.5511	-0.0007	0.0589	-0.00065	0.00073	0.00116	-0.00189
400	414.0	1.5899	-0.0009	0.0296	-0.00083	0.00084	0.00114	-0.00198
450	464.0	1.6167	-0.0009	0.0074	-0.00095	0.00091	0.00107	-0.00198
500	514.0	1.6355	-0.0006	-0.0082	-0.00102	0.00094	0.00097	-0.00191
600	614.0	1.6578	0.0002	-0.0228	-0.00105	0.00094	0.00072	-0.00165
700	714.0	1.6676	0.0010	-0.0209	-0.00098	0.00088	0.00045	-0.00133
800	814.0	1.6703	0.0019	-0.0079	-0.00084	0.00081	0.00021	-0.00101
900	914.0	1.6684	0.0028	0.0124	-0.00067	0.00074	0.00000	-0.00073
1000	1014.0	1.6638	0.0037	0.0375	-0.00048	0.00068	-0.00017	-0.00052
1100	1114.0	1.6572	0.0046	0.0657	-0.00030	0.00065	-0.00028	-0.00037
1200	1214.0	1.6492	0.0055	0.0959	-0.00013	0.00065	-0.00034	-0.00031
1300	1314.0	1.6404	0.0065	0.1273	0.00002	0.00067	-0.00035	-0.00032
1400	1414.0	1.6309	0.0075	0.1594	0.00015	0.00073	-0.00031	-0.00042
1500	1514.0	1.6209	0.0085	0.1917	0.00026	0.00081	-0.00022	-0.00059
1600	1614.0	1.6107	0.0095	0.2241	0.00035	0.00092	-0.00008	-0.00083
1700	1714.0	1.6001	0.0105	0.2562	0.00041	0.00105	0.00010	-0.00115
1800	1814.0	1.5895	0.0116	0.2880	0.00045	0.00121	0.00033	-0.00154
1900	1914.0	1.5787	0.0128	0.3193	0.00047	0.00139	0.00059	-0.00198
2000	2014.0	1.5679	0.0139	0.3502	0.00046	0.00159	0.00089	-0.00249
2500	2514.0	1.5141	0.0202	0.4949	0.00011	0.00288	0.00288	-0.00576
3000	3014.0	1.4618	0.0272	0.6231	-0.00069	0.00451	0.00550	-0.01001
3500	3514.0	1.4118	0.0346	0.7357	-0.00181	0.00631	0.00852	-0.01484
4000	4014.0	1.3645	0.0425	0.8346	-0.00321	0.00826	0.01186	-0.02012
4500	4514.0	1.3198	0.0507	0.9218	-0.00477	0.01019	0.01536	-0.02555
5000	5014.0	1.2776	0.0590	0.9988	-0.00649	0.01211	0.01898	-0.03109



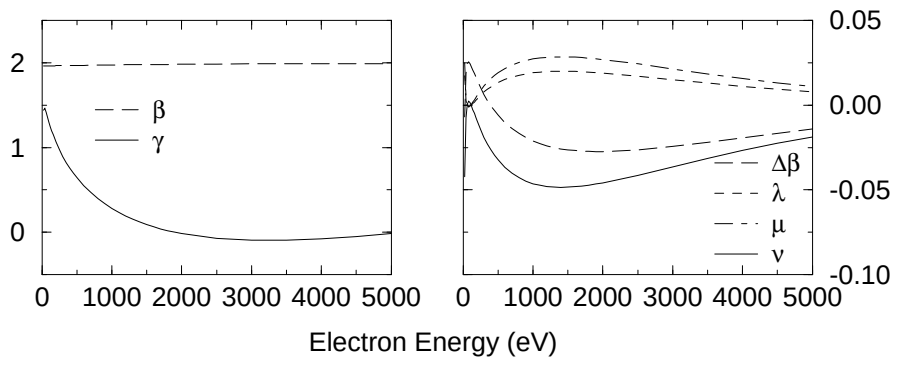
$1s$ shell of Xe E_b = 34565.2 (eV) (δ negligible for ns shells)

E (eV)	ω (eV)	β	γ	$\Delta\beta$	λ	μ	ν
20	34585.2	1.9646	-1.4424	0.01492	0.00614	0.00708	-0.01322
40	34605.2	1.9648	-1.4746	0.00500	0.01157	0.01477	-0.02634
60	34625.2	1.9648	-1.4352	0.00270	0.01285	0.01656	-0.02942
80	34645.2	1.9648	-1.3867	0.00230	0.01309	0.01689	-0.02998
100	34665.2	1.9648	-1.3388	0.00262	0.01294	0.01666	-0.02960
120	34685.2	1.9648	-1.2935	0.00323	0.01263	0.01622	-0.02885
140	34705.2	1.9647	-1.2511	0.00395	0.01226	0.01570	-0.02796
160	34725.2	1.9646	-1.2115	0.00470	0.01188	0.01516	-0.02704
180	34745.2	1.9646	-1.1744	0.00546	0.01150	0.01462	-0.02612
200	34765.2	1.9645	-1.1395	0.00621	0.01113	0.01410	-0.02523
250	34815.2	1.9643	-1.0606	0.00798	0.01028	0.01289	-0.02317
300	34865.2	1.9640	-0.9910	0.00960	0.00952	0.01182	-0.02134
350	34915.2	1.9638	-0.9286	0.01109	0.00885	0.01086	-0.01970
400	34965.2	1.9635	-0.8719	0.01246	0.00824	0.01000	-0.01824
450	35015.2	1.9633	-0.8198	0.01372	0.00770	0.00923	-0.01693
500	35065.2	1.9630	-0.7714	0.01489	0.00721	0.00853	-0.01574
600	35165.2	1.9624	-0.6839	0.01699	0.00637	0.00733	-0.01370
700	35265.2	1.9618	-0.6058	0.01882	0.00569	0.00634	-0.01203
800	35365.2	1.9613	-0.5351	0.02043	0.00513	0.00554	-0.01066
900	35465.2	1.9607	-0.4702	0.02185	0.00467	0.00487	-0.00954
1000	35565.2	1.9601	-0.4101	0.02312	0.00430	0.00433	-0.00863
1100	35665.2	1.9595	-0.3539	0.02426	0.00401	0.00390	-0.00791
1200	35765.2	1.9589	-0.3011	0.02527	0.00378	0.00356	-0.00734
1300	35865.2	1.9583	-0.2512	0.02619	0.00361	0.00330	-0.00691
1400	35965.2	1.9577	-0.2039	0.02702	0.00349	0.00311	-0.00660
1500	36065.2	1.9571	-0.1587	0.02777	0.00341	0.00298	-0.00639
1600	36165.2	1.9565	-0.1156	0.02845	0.00337	0.00291	-0.00628
1700	36265.2	1.9559	-0.0742	0.02907	0.00337	0.00288	-0.00625
1800	36365.2	1.9553	-0.0344	0.02963	0.00340	0.00290	-0.00629
1900	36465.2	1.9547	0.0039	0.03014	0.00345	0.00295	-0.00641
2000	36565.2	1.9541	0.0409	0.03061	0.00353	0.00305	-0.00658
2500	37065.2	1.9510	0.2096	0.03239	0.00424	0.00393	-0.00817
3000	37565.2	1.9480	0.3573	0.03350	0.00532	0.00535	-0.01067
3500	38065.2	1.9449	0.4896	0.03415	0.00666	0.00712	-0.01378
4000	38565.2	1.9418	0.6101	0.03445	0.00818	0.00915	-0.01733
4500	39065.2	1.9388	0.7211	0.03450	0.00984	0.01137	-0.02121
5000	39565.2	1.9357	0.8244	0.03435	0.01161	0.01374	-0.02535



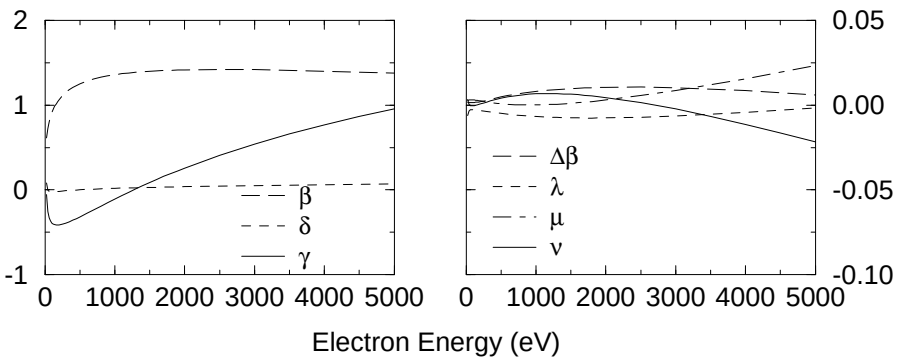
$2s$ shell of Xe $E_b = 5452.6$ (eV) (δ negligible for ns shells)

E (eV)	ω (eV)	β	γ	$\Delta\beta$	λ	μ	ν
20	5472.6	1.9620	1.4408	-0.00698	0.01744	0.02491	-0.04235
40	5492.6	1.9624	1.4629	0.01871	0.00293	0.00459	-0.00752
60	5512.6	1.9628	1.4134	0.02450	-0.00049	-0.00020	0.00069
80	5532.6	1.9631	1.3557	0.02536	-0.00117	-0.00114	0.00231
100	5552.6	1.9635	1.2991	0.02438	-0.00081	-0.00063	0.00144
120	5572.6	1.9638	1.2457	0.02267	-0.00004	0.00044	-0.00040
140	5592.6	1.9641	1.1959	0.02071	0.00088	0.00173	-0.00261
160	5612.6	1.9645	1.1493	0.01868	0.00184	0.00308	-0.00491
180	5632.6	1.9648	1.1057	0.01669	0.00279	0.00441	-0.00720
200	5652.6	1.9651	1.0648	0.01475	0.00371	0.00570	-0.00942
250	5702.6	1.9658	0.9725	0.01025	0.00585	0.00869	-0.01454
300	5752.6	1.9665	0.8916	0.00625	0.00773	0.01133	-0.01906
350	5802.6	1.9672	0.8198	0.00269	0.00938	0.01364	-0.02302
400	5852.6	1.9678	0.7552	-0.00049	0.01083	0.01567	-0.02650
450	5902.6	1.9684	0.6967	-0.00334	0.01211	0.01746	-0.02957
500	5952.6	1.9690	0.6432	-0.00590	0.01324	0.01903	-0.03227
600	6052.6	1.9702	0.5489	-0.01029	0.01510	0.02164	-0.03675
700	6152.6	1.9713	0.4680	-0.01387	0.01655	0.02366	-0.04022
800	6252.6	1.9724	0.3979	-0.01679	0.01766	0.02521	-0.04288
900	6352.6	1.9734	0.3365	-0.01918	0.01850	0.02638	-0.04488
1000	6452.6	1.9743	0.2825	-0.02113	0.01912	0.02724	-0.04635
1100	6552.6	1.9752	0.2347	-0.02272	0.01955	0.02783	-0.04738
1200	6652.6	1.9761	0.1922	-0.02399	0.01983	0.02822	-0.04805
1300	6752.6	1.9769	0.1545	-0.02500	0.01999	0.02843	-0.04842
1400	6852.6	1.9777	0.1209	-0.02579	0.02004	0.02849	-0.04853
1500	6952.6	1.9785	0.0909	-0.02639	0.02000	0.02843	-0.04843
1600	7052.6	1.9792	0.0643	-0.02683	0.01989	0.02827	-0.04816
1700	7152.6	1.9799	0.0405	-0.02713	0.01972	0.02803	-0.04775
1800	7252.6	1.9806	0.0194	-0.02731	0.01950	0.02771	-0.04721
1900	7352.6	1.9812	0.0007	-0.02739	0.01924	0.02733	-0.04657
2000	7452.6	1.9818	-0.0159	-0.02737	0.01894	0.02691	-0.04585
2500	7952.6	1.9843	-0.0719	-0.02634	0.01712	0.02431	-0.04143
3000	8452.6	1.9863	-0.0948	-0.02434	0.01506	0.02138	-0.03645
3500	8952.6	1.9877	-0.0950	-0.02189	0.01301	0.01846	-0.03147
4000	9452.6	1.9887	-0.0791	-0.01928	0.01109	0.01572	-0.02681
4500	9952.6	1.9894	-0.0517	-0.01664	0.00934	0.01323	-0.02257
5000	10452.6	1.9897	-0.0158	-0.01408	0.00781	0.01103	-0.01883



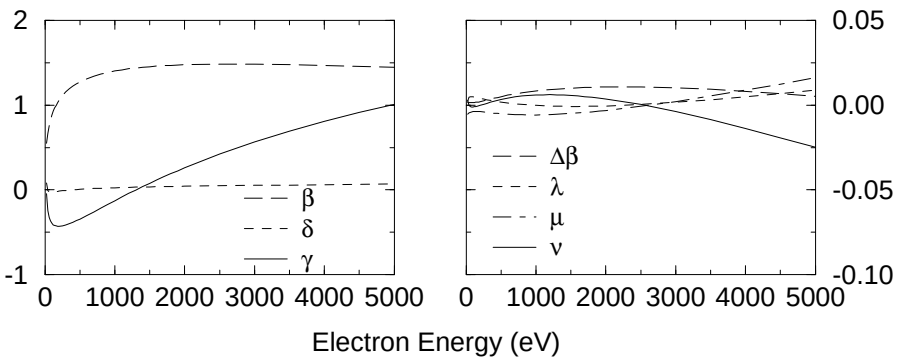
$2p_{1/2}$ shell of Xe $\quad E_b = 5106.7$ (eV)

E (eV)	ω (eV)	β	δ	γ	$\Delta\beta$	λ	μ	ν
20	5126.7	0.6150	0.0790	-0.0543	0.00160	-0.00611	0.00267	0.00345
40	5146.7	0.7225	-0.0022	-0.2586	0.00157	-0.00349	0.00298	0.00052
60	5166.7	0.8024	-0.0192	-0.3300	0.00161	-0.00284	0.00308	-0.00024
80	5186.7	0.8631	-0.0244	-0.3692	0.00160	-0.00267	0.00309	-0.00042
100	5206.7	0.9115	-0.0253	-0.3917	0.00160	-0.00267	0.00304	-0.00037
120	5226.7	0.9516	-0.0244	-0.4045	0.00163	-0.00275	0.00297	-0.00023
140	5246.7	0.9856	-0.0229	-0.4114	0.00168	-0.00285	0.00289	-0.00004
160	5266.7	1.0152	-0.0212	-0.4144	0.00176	-0.00297	0.00279	0.00018
180	5286.7	1.0411	-0.0194	-0.4149	0.00186	-0.00309	0.00268	0.00041
200	5306.7	1.0641	-0.0177	-0.4135	0.00199	-0.00321	0.00256	0.00065
250	5356.7	1.1123	-0.0136	-0.4048	0.00240	-0.00352	0.00225	0.00127
300	5406.7	1.1507	-0.0099	-0.3914	0.00288	-0.00382	0.00192	0.00190
350	5456.7	1.1822	-0.0067	-0.3753	0.00338	-0.00411	0.00161	0.00250
400	5506.7	1.2087	-0.0038	-0.3573	0.00388	-0.00440	0.00133	0.00307
450	5556.7	1.2313	-0.0011	-0.3381	0.00436	-0.00467	0.00107	0.00360
500	5606.7	1.2508	0.0013	-0.3181	0.00481	-0.00493	0.00085	0.00408
600	5706.7	1.2830	0.0056	-0.2766	0.00565	-0.00541	0.00051	0.00491
700	5806.7	1.3083	0.0094	-0.2342	0.00638	-0.00584	0.00028	0.00556
800	5906.7	1.3286	0.0127	-0.1916	0.00702	-0.00620	0.00015	0.00606
900	6006.7	1.3453	0.0156	-0.1493	0.00758	-0.00652	0.00010	0.00641
1000	6106.7	1.3590	0.0183	-0.1077	0.00807	-0.00678	0.00013	0.00665
1100	6206.7	1.3705	0.0208	-0.0669	0.00851	-0.00700	0.00022	0.00678
1200	6306.7	1.3800	0.0230	-0.0269	0.00890	-0.00718	0.00037	0.00681
1300	6406.7	1.3880	0.0251	0.0120	0.00923	-0.00732	0.00057	0.00676
1400	6506.7	1.3948	0.0270	0.0500	0.00953	-0.00744	0.00081	0.00663
1500	6606.7	1.4004	0.0288	0.0870	0.00978	-0.00752	0.00109	0.00642
1600	6706.7	1.4051	0.0305	0.1230	0.01000	-0.00757	0.00142	0.00615
1700	6806.7	1.4090	0.0321	0.1581	0.01018	-0.00759	0.00177	0.00582
1800	6906.7	1.4122	0.0337	0.1922	0.01033	-0.00760	0.00216	0.00544
1900	7006.7	1.4147	0.0352	0.2254	0.01045	-0.00758	0.00258	0.00500
2000	7106.7	1.4168	0.0366	0.2578	0.01054	-0.00754	0.00302	0.00452
2500	7606.7	1.4208	0.0430	0.4077	0.01065	-0.00710	0.00559	0.00151
3000	8106.7	1.4178	0.0486	0.5405	0.01027	-0.00634	0.00862	-0.00227
3500	8606.7	1.4105	0.0539	0.6595	0.00954	-0.00537	0.01197	-0.00660
4000	9106.7	1.4006	0.0589	0.7671	0.00853	-0.00424	0.01556	-0.01132
4500	9606.7	1.3888	0.0637	0.8650	0.00732	-0.00300	0.01934	-0.01634
5000	10106.7	1.3759	0.0685	0.9547	0.00594	-0.00169	0.02326	-0.02157



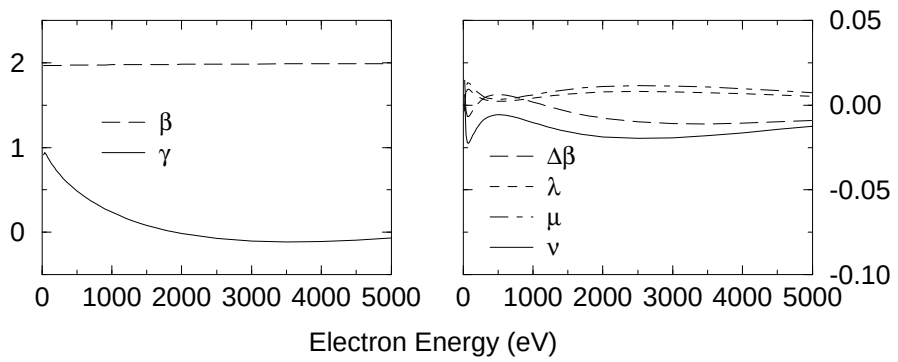
$2p_{3/2}$ shell of Xe $\quad E_b = 4786.5$ (eV)

E (eV)	ω (eV)	β	δ	γ	$\Delta\beta$	λ	μ	ν
20	4806.5	0.5501	0.0788	-0.0429	0.00159	0.00230	-0.00523	0.00294
40	4826.5	0.6688	-0.0065	-0.2472	0.00153	0.00456	-0.00459	0.00004
60	4846.5	0.7583	-0.0231	-0.3240	0.00156	0.00499	-0.00420	-0.00079
80	4866.5	0.8268	-0.0273	-0.3684	0.00157	0.00501	-0.00397	-0.00104
100	4886.5	0.8818	-0.0272	-0.3953	0.00157	0.00488	-0.00383	-0.00105
120	4906.5	0.9274	-0.0255	-0.4117	0.00160	0.00471	-0.00376	-0.00094
140	4926.5	0.9663	-0.0232	-0.4216	0.00166	0.00452	-0.00373	-0.00079
160	4946.5	1.0001	-0.0207	-0.4272	0.00175	0.00433	-0.00373	-0.00060
180	4966.5	1.0298	-0.0183	-0.4298	0.00187	0.00415	-0.00376	-0.00039
200	4986.5	1.0563	-0.0160	-0.4303	0.00201	0.00397	-0.00381	-0.00016
250	5036.5	1.1119	-0.0108	-0.4250	0.00245	0.00356	-0.00399	0.00043
300	5086.5	1.1563	-0.0063	-0.4140	0.00296	0.00317	-0.00422	0.00105
350	5136.5	1.1929	-0.0023	-0.3994	0.00349	0.00280	-0.00446	0.00166
400	5186.5	1.2237	0.0011	-0.3824	0.00401	0.00246	-0.00469	0.00224
450	5236.5	1.2502	0.0042	-0.3638	0.00452	0.00213	-0.00491	0.00278
500	5286.5	1.2731	0.0070	-0.3441	0.00499	0.00183	-0.00510	0.00327
600	5386.5	1.3110	0.0118	-0.3023	0.00586	0.00128	-0.00541	0.00413
700	5486.5	1.3411	0.0159	-0.2590	0.00661	0.00081	-0.00562	0.00481
800	5586.5	1.3655	0.0194	-0.2150	0.00727	0.00042	-0.00575	0.00533
900	5686.5	1.3855	0.0225	-0.1711	0.00785	0.00009	-0.00579	0.00571
1000	5786.5	1.4023	0.0252	-0.1275	0.00835	-0.00018	-0.00578	0.00595
1100	5886.5	1.4163	0.0276	-0.0846	0.00879	-0.00039	-0.00570	0.00609
1200	5986.5	1.4282	0.0298	-0.0425	0.00918	-0.00055	-0.00557	0.00612
1300	6086.5	1.4383	0.0318	-0.0013	0.00951	-0.00066	-0.00540	0.00606
1400	6186.5	1.4468	0.0336	0.0390	0.00980	-0.00073	-0.00518	0.00591
1500	6286.5	1.4541	0.0353	0.0783	0.01004	-0.00077	-0.00492	0.00569
1600	6386.5	1.4603	0.0369	0.1166	0.01025	-0.00077	-0.00463	0.00539
1700	6486.5	1.4655	0.0383	0.1540	0.01042	-0.00074	-0.00430	0.00504
1800	6586.5	1.4699	0.0397	0.1904	0.01056	-0.00068	-0.00394	0.00462
1900	6686.5	1.4736	0.0410	0.2260	0.01066	-0.00059	-0.00355	0.00414
2000	6786.5	1.4766	0.0422	0.2606	0.01074	-0.00048	-0.00313	0.00361
2500	7286.5	1.4845	0.0477	0.4214	0.01074	0.00039	-0.00072	0.00033
3000	7786.5	1.4840	0.0524	0.5643	0.01024	0.00165	0.00215	-0.00380
3500	8286.5	1.4783	0.0567	0.6925	0.00936	0.00320	0.00534	-0.00854
4000	8786.5	1.4691	0.0609	0.8083	0.00821	0.00494	0.00878	-0.01372
4500	9286.5	1.4576	0.0650	0.9138	0.00684	0.00682	0.01240	-0.01922
5000	9786.5	1.4446	0.0691	1.0104	0.00529	0.00880	0.01616	-0.02496



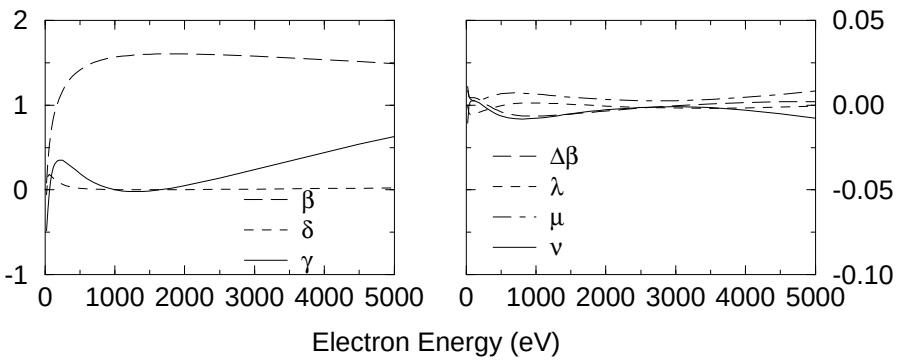
$3s$ shell of Xe $E_b = 1150.5$ (eV) (δ negligible for ns shells)

E (eV)	ω (eV)	β	γ	$\Delta\beta$	λ	μ	ν
20	1170.5	1.9658	0.9139	0.01468	-0.00271	-0.00358	0.00629
40	1190.5	1.9660	0.9385	-0.00313	0.00719	0.01030	-0.01748
60	1210.5	1.9663	0.9166	-0.00663	0.00917	0.01306	-0.02223
80	1230.5	1.9667	0.8882	-0.00678	0.00928	0.01323	-0.02251
100	1250.5	1.9670	0.8595	-0.00580	0.00877	0.01251	-0.02128
120	1270.5	1.9673	0.8320	-0.00448	0.00807	0.01152	-0.01959
140	1290.5	1.9676	0.8059	-0.00312	0.00733	0.01049	-0.01782
160	1310.5	1.9679	0.7812	-0.00182	0.00664	0.00951	-0.01615
180	1330.5	1.9681	0.7579	-0.00063	0.00600	0.00862	-0.01462
200	1350.5	1.9684	0.7357	0.00044	0.00542	0.00782	-0.01324
250	1400.5	1.9690	0.6846	0.00260	0.00426	0.00619	-0.01046
300	1450.5	1.9696	0.6386	0.00414	0.00344	0.00504	-0.00848
350	1500.5	1.9702	0.5966	0.00518	0.00288	0.00425	-0.00713
400	1550.5	1.9707	0.5578	0.00583	0.00252	0.00375	-0.00627
450	1600.5	1.9712	0.5217	0.00618	0.00232	0.00347	-0.00579
500	1650.5	1.9716	0.4880	0.00629	0.00224	0.00337	-0.00561
600	1750.5	1.9725	0.4264	0.00599	0.00234	0.00351	-0.00586
700	1850.5	1.9733	0.3714	0.00524	0.00267	0.00398	-0.00665
800	1950.5	1.9741	0.3219	0.00423	0.00312	0.00461	-0.00773
900	2050.5	1.9748	0.2771	0.00307	0.00363	0.00533	-0.00896
1000	2150.5	1.9755	0.2365	0.00185	0.00416	0.00607	-0.01024
1100	2250.5	1.9762	0.1996	0.00063	0.00468	0.00681	-0.01149
1200	2350.5	1.9768	0.1659	-0.00056	0.00518	0.00750	-0.01268
1300	2450.5	1.9774	0.1352	-0.00170	0.00564	0.00815	-0.01379
1400	2550.5	1.9780	0.1072	-0.00277	0.00606	0.00874	-0.01480
1500	2650.5	1.9785	0.0817	-0.00377	0.00644	0.00927	-0.01571
1600	2750.5	1.9791	0.0585	-0.00469	0.00677	0.00974	-0.01651
1700	2850.5	1.9796	0.0373	-0.00554	0.00706	0.01015	-0.01721
1800	2950.5	1.9801	0.0180	-0.00631	0.00731	0.01050	-0.01781
1900	3050.5	1.9806	0.0006	-0.00701	0.00752	0.01079	-0.01832
2000	3150.5	1.9811	-0.0153	-0.00764	0.00770	0.01103	-0.01873
2500	3650.5	1.9832	-0.0735	-0.00985	0.00810	0.01159	-0.01968
3000	4150.5	1.9850	-0.1043	-0.01086	0.00793	0.01134	-0.01927
3500	4650.5	1.9864	-0.1150	-0.01105	0.00742	0.01061	-0.01803
4000	5150.5	1.9876	-0.1106	-0.01068	0.00672	0.00961	-0.01633
4500	5650.5	1.9885	-0.0946	-0.00995	0.00594	0.00850	-0.01444
5000	6150.5	1.9891	-0.0697	-0.00899	0.00515	0.00736	-0.01251



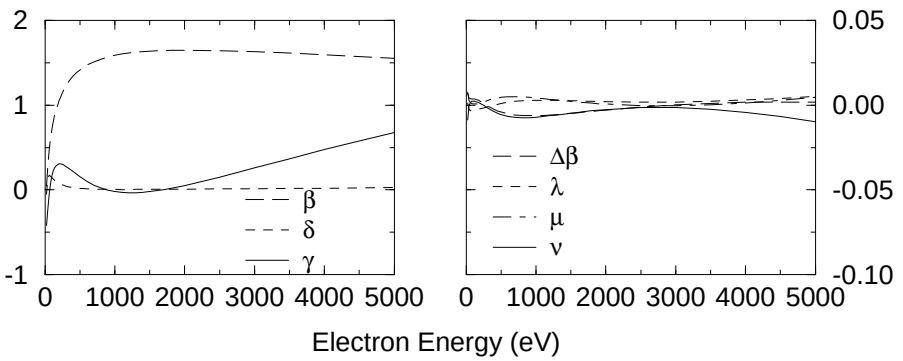
$3p_{1/2}$ shell of Xe $\quad E_b = 1003.5$ (eV)

E (eV)	ω (eV)	β	δ	γ	$\Delta\beta$	λ	μ	ν
20	1023.5	0.0838	-0.0559	-0.4824	0.00870	-0.00052	0.01107	-0.01055
40	1043.5	0.3286	0.1608	-0.2459	0.00492	-0.00483	0.00504	-0.00021
60	1063.5	0.5089	0.1805	-0.0475	0.00446	-0.00554	0.00360	0.00194
80	1083.5	0.6444	0.1707	0.0967	0.00444	-0.00550	0.00296	0.00254
100	1103.5	0.7511	0.1540	0.1951	0.00443	-0.00526	0.00264	0.00262
120	1123.5	0.8382	0.1370	0.2606	0.00434	-0.00498	0.00250	0.00247
140	1143.5	0.9110	0.1214	0.3032	0.00414	-0.00470	0.00251	0.00219
160	1163.5	0.9732	0.1077	0.3299	0.00384	-0.00443	0.00261	0.00182
180	1183.5	1.0270	0.0958	0.3452	0.00345	-0.00417	0.00278	0.00138
200	1203.5	1.0740	0.0854	0.3524	0.00300	-0.00391	0.00302	0.00089
250	1253.5	1.1696	0.0649	0.3478	0.00169	-0.00325	0.00373	-0.00048
300	1303.5	1.2428	0.0502	0.3250	0.00031	-0.00258	0.00450	-0.00192
350	1353.5	1.3004	0.0393	0.2942	-0.00098	-0.00193	0.00521	-0.00327
400	1403.5	1.3470	0.0312	0.2603	-0.00213	-0.00133	0.00581	-0.00448
450	1453.5	1.3852	0.0249	0.2263	-0.00311	-0.00079	0.00629	-0.00550
500	1503.5	1.4170	0.0200	0.1935	-0.00392	-0.00032	0.00665	-0.00632
600	1603.5	1.4665	0.0132	0.1347	-0.00512	0.00040	0.00706	-0.00746
700	1703.5	1.5026	0.0088	0.0865	-0.00587	0.00086	0.00717	-0.00803
800	1803.5	1.5295	0.0060	0.0489	-0.00630	0.00113	0.00708	-0.00820
900	1903.5	1.5499	0.0041	0.0207	-0.00648	0.00124	0.00685	-0.00809
1000	2003.5	1.5654	0.0029	0.0008	-0.00650	0.00125	0.00654	-0.00778
1100	2103.5	1.5772	0.0022	-0.0121	-0.00640	0.00117	0.00618	-0.00735
1200	2203.5	1.5861	0.0017	-0.0191	-0.00620	0.00104	0.00580	-0.00685
1300	2303.5	1.5928	0.0015	-0.0212	-0.00594	0.00088	0.00542	-0.00630
1400	2403.5	1.5976	0.0014	-0.0192	-0.00563	0.00069	0.00504	-0.00573
1500	2503.5	1.6010	0.0015	-0.0138	-0.00529	0.00048	0.00468	-0.00517
1600	2603.5	1.6032	0.0017	-0.0055	-0.00493	0.00027	0.00434	-0.00462
1700	2703.5	1.6044	0.0019	0.0052	-0.00455	0.00006	0.00403	-0.00409
1800	2803.5	1.6047	0.0022	0.0177	-0.00417	-0.00014	0.00374	-0.00360
1900	2903.5	1.6044	0.0026	0.0319	-0.00379	-0.00034	0.00349	-0.00314
2000	3003.5	1.6035	0.0029	0.0475	-0.00341	-0.00054	0.00326	-0.00272
2500	3503.5	1.5926	0.0054	0.1380	-0.00165	-0.00130	0.00259	-0.00129
3000	4003.5	1.5758	0.0084	0.2386	-0.00022	-0.00173	0.00265	-0.00092
3500	4503.5	1.5560	0.0117	0.3410	0.00084	-0.00184	0.00334	-0.00150
4000	5003.5	1.5348	0.0154	0.4414	0.00155	-0.00167	0.00457	-0.00291
4500	5503.5	1.5130	0.0193	0.5381	0.00193	-0.00126	0.00625	-0.00499
5000	6003.5	1.4911	0.0234	0.6304	0.00204	-0.00066	0.00832	-0.00766



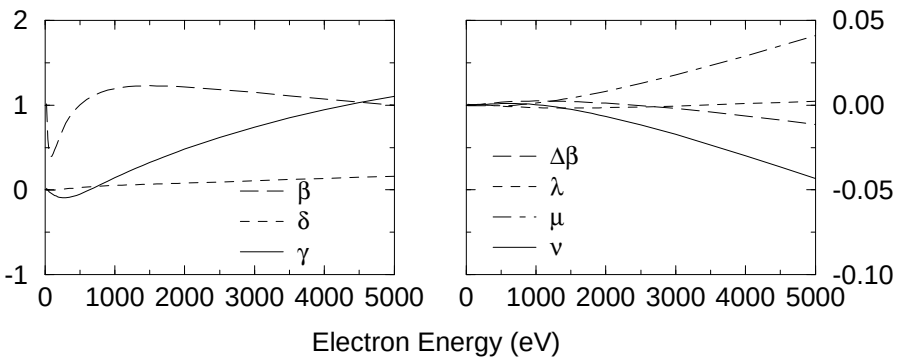
$3p_{3/2}$ shell of Xe $\quad E_b = 941.9$ (eV)

E (eV)	ω (eV)	β	δ	γ	$\Delta\beta$	λ	μ	ν
20	961.9	0.0466	-0.0491	-0.4212	0.00717	0.00133	0.00757	-0.00890
40	981.9	0.2888	0.1509	-0.2264	0.00411	-0.00238	0.00271	-0.00033
60	1001.9	0.4700	0.1682	-0.0519	0.00374	-0.00314	0.00152	0.00162
80	1021.9	0.6073	0.1583	0.0768	0.00374	-0.00324	0.00100	0.00224
100	1041.9	0.7161	0.1423	0.1651	0.00373	-0.00314	0.00074	0.00240
120	1061.9	0.8054	0.1261	0.2239	0.00363	-0.00299	0.00065	0.00234
140	1081.9	0.8804	0.1114	0.2621	0.00342	-0.00282	0.00067	0.00215
160	1101.9	0.9447	0.0984	0.2859	0.00313	-0.00265	0.00079	0.00186
180	1121.9	1.0005	0.0872	0.2994	0.00275	-0.00247	0.00097	0.00150
200	1141.9	1.0495	0.0774	0.3055	0.00231	-0.00228	0.00120	0.00108
250	1191.9	1.1499	0.0584	0.3000	0.00106	-0.00175	0.00188	-0.00013
300	1241.9	1.2273	0.0448	0.2782	-0.00023	-0.00117	0.00261	-0.00144
350	1291.9	1.2890	0.0348	0.2490	-0.00144	-0.00057	0.00327	-0.00270
400	1341.9	1.3392	0.0275	0.2172	-0.00250	0.00001	0.00383	-0.00383
450	1391.9	1.3808	0.0219	0.1853	-0.00340	0.00053	0.00426	-0.00479
500	1441.9	1.4158	0.0177	0.1548	-0.00413	0.00100	0.00458	-0.00558
600	1541.9	1.4709	0.0120	0.1004	-0.00520	0.00176	0.00492	-0.00667
700	1641.9	1.5121	0.0086	0.0563	-0.00583	0.00228	0.00497	-0.00724
800	1741.9	1.5435	0.0066	0.0224	-0.00616	0.00261	0.00482	-0.00743
900	1841.9	1.5679	0.0054	-0.0024	-0.00626	0.00281	0.00454	-0.00735
1000	1941.9	1.5870	0.0048	-0.0192	-0.00622	0.00290	0.00419	-0.00709
1100	2041.9	1.6021	0.0046	-0.0292	-0.00605	0.00291	0.00380	-0.00670
1200	2141.9	1.6140	0.0046	-0.0335	-0.00581	0.00287	0.00338	-0.00625
1300	2241.9	1.6234	0.0048	-0.0331	-0.00551	0.00279	0.00297	-0.00575
1400	2341.9	1.6308	0.0051	-0.0286	-0.00518	0.00269	0.00256	-0.00525
1500	2441.9	1.6365	0.0054	-0.0209	-0.00481	0.00258	0.00216	-0.00474
1600	2541.9	1.6408	0.0058	-0.0105	-0.00443	0.00246	0.00179	-0.00425
1700	2641.9	1.6439	0.0063	0.0022	-0.00405	0.00234	0.00145	-0.00378
1800	2741.9	1.6461	0.0068	0.0168	-0.00366	0.00222	0.00113	-0.00335
1900	2841.9	1.6474	0.0073	0.0330	-0.00327	0.00212	0.00084	-0.00296
2000	2941.9	1.6481	0.0078	0.0504	-0.00289	0.00202	0.00058	-0.00260
2500	3441.9	1.6436	0.0106	0.1497	-0.00117	0.00173	-0.00024	-0.00149
3000	3941.9	1.6312	0.0135	0.2582	0.00016	0.00181	-0.00033	-0.00148
3500	4441.9	1.6146	0.0167	0.3678	0.00109	0.00224	0.00020	-0.00244
4000	4941.9	1.5956	0.0200	0.4749	0.00164	0.00298	0.00127	-0.00424
4500	5441.9	1.5753	0.0234	0.5779	0.00187	0.00397	0.00278	-0.00675
5000	5941.9	1.5542	0.0271	0.6761	0.00180	0.00518	0.00467	-0.00985



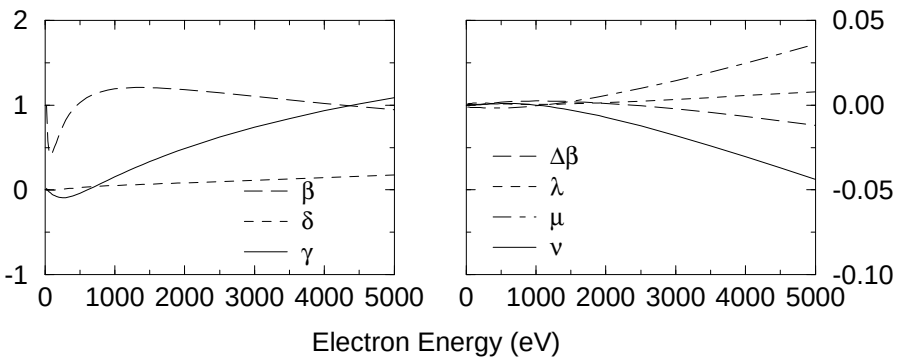
$3d_{3/2}$ shell of Xe $\quad E_b = 690.5$ (eV)

E (eV)	ω (eV)	β	δ	γ	$\Delta\beta$	λ	μ	ν
20	710.5	1.0145	-0.0017	0.0155	0.00020	-0.00013	-0.00036	0.00048
40	730.5	0.5992	-0.0016	-0.0055	0.00015	0.00000	-0.00033	0.00034
60	750.5	0.4336	-0.0016	-0.0226	0.00015	0.00006	-0.00033	0.00027
80	770.5	0.3899	-0.0018	-0.0363	0.00017	0.00010	-0.00033	0.00023
100	790.5	0.3986	-0.0019	-0.0478	0.00021	0.00012	-0.00033	0.00021
120	810.5	0.4303	-0.0018	-0.0578	0.00026	0.00014	-0.00034	0.00020
140	830.5	0.4717	-0.0013	-0.0666	0.00031	0.00016	-0.00035	0.00020
160	850.5	0.5164	-0.0005	-0.0742	0.00037	0.00016	-0.00037	0.00021
180	870.5	0.5612	0.0007	-0.0806	0.00044	0.00016	-0.00038	0.00022
200	890.5	0.6047	0.0021	-0.0858	0.00051	0.00015	-0.00040	0.00025
250	940.5	0.7034	0.0063	-0.0934	0.00070	0.00009	-0.00043	0.00035
300	990.5	0.7867	0.0111	-0.0936	0.00091	-0.00001	-0.00046	0.00047
350	1040.5	0.8564	0.0160	-0.0879	0.00111	-0.00012	-0.00047	0.00060
400	1090.5	0.9146	0.0205	-0.0776	0.00131	-0.00025	-0.00047	0.00072
450	1140.5	0.9634	0.0247	-0.0640	0.00149	-0.00038	-0.00045	0.00082
500	1190.5	1.0046	0.0285	-0.0482	0.00166	-0.00051	-0.00040	0.00091
600	1290.5	1.0692	0.0350	-0.0125	0.00195	-0.00076	-0.00024	0.00100
700	1390.5	1.1163	0.0403	0.0257	0.00217	-0.00098	0.00000	0.00097
800	1490.5	1.1508	0.0448	0.0648	0.00232	-0.00116	0.00033	0.00083
900	1590.5	1.1762	0.0488	0.1038	0.00240	-0.00132	0.00073	0.00059
1000	1690.5	1.1948	0.0523	0.1422	0.00244	-0.00144	0.00119	0.00025
1100	1790.5	1.2081	0.0556	0.1799	0.00243	-0.00153	0.00171	-0.00018
1200	1890.5	1.2173	0.0586	0.2168	0.00239	-0.00160	0.00228	-0.00068
1300	1990.5	1.2232	0.0616	0.2528	0.00232	-0.00165	0.00290	-0.00125
1400	2090.5	1.2266	0.0644	0.2879	0.00221	-0.00168	0.00356	-0.00188
1500	2190.5	1.2279	0.0672	0.3222	0.00208	-0.00168	0.00425	-0.00257
1600	2290.5	1.2276	0.0699	0.3555	0.00193	-0.00167	0.00498	-0.00331
1700	2390.5	1.2259	0.0726	0.3880	0.00175	-0.00165	0.00575	-0.00410
1800	2490.5	1.2231	0.0753	0.4196	0.00156	-0.00161	0.00654	-0.00493
1900	2590.5	1.2193	0.0779	0.4504	0.00134	-0.00156	0.00736	-0.00580
2000	2690.5	1.2148	0.0806	0.4804	0.00111	-0.00150	0.00821	-0.00671
2500	3190.5	1.1849	0.0940	0.6192	-0.00028	-0.00108	0.01279	-0.01171
3000	3690.5	1.1487	0.1075	0.7412	-0.00202	-0.00050	0.01784	-0.01734
3500	4190.5	1.1106	0.1211	0.8488	-0.00405	0.00017	0.02327	-0.02343
4000	4690.5	1.0725	0.1348	0.9441	-0.00633	0.00088	0.02899	-0.02986
4500	5190.5	1.0354	0.1486	1.0286	-0.00884	0.00160	0.03493	-0.03653
5000	5690.5	0.9997	0.1622	1.1036	-0.01154	0.00231	0.04105	-0.04336



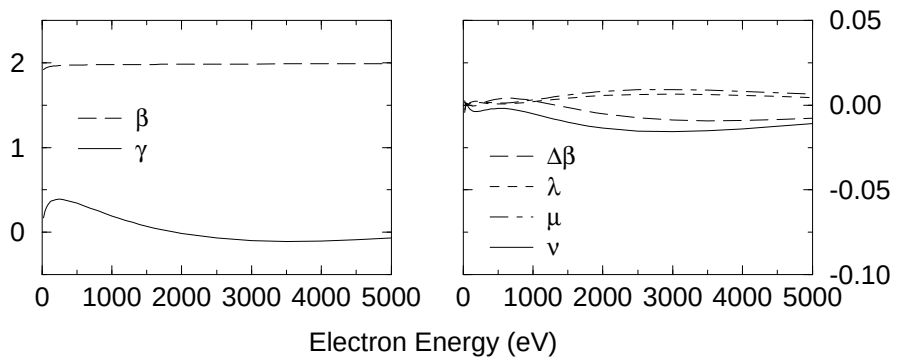
$3d_{5/2}$ shell of Xe $\quad E_b = 677.9$ (eV)

E (eV)	ω (eV)	β	δ	γ	$\Delta\beta$	λ	μ	ν
20	697.9	0.9917	-0.0017	0.0154	0.00019	0.00065	-0.00112	0.00047
40	717.9	0.5790	-0.0016	-0.0060	0.00015	0.00089	-0.00123	0.00034
60	737.9	0.4342	-0.0016	-0.0231	0.00015	0.00101	-0.00129	0.00027
80	757.9	0.4061	-0.0018	-0.0369	0.00017	0.00109	-0.00132	0.00024
100	777.9	0.4254	-0.0019	-0.0485	0.00021	0.00114	-0.00135	0.00021
120	797.9	0.4641	-0.0017	-0.0586	0.00026	0.00117	-0.00137	0.00020
140	817.9	0.5099	-0.0012	-0.0674	0.00031	0.00120	-0.00140	0.00020
160	837.9	0.5573	-0.0004	-0.0750	0.00038	0.00121	-0.00142	0.00021
180	857.9	0.6037	0.0007	-0.0813	0.00044	0.00122	-0.00145	0.00023
200	877.9	0.6478	0.0021	-0.0862	0.00051	0.00122	-0.00148	0.00025
250	927.9	0.7458	0.0062	-0.0928	0.00071	0.00120	-0.00154	0.00034
300	977.9	0.8267	0.0109	-0.0918	0.00091	0.00114	-0.00160	0.00046
350	1027.9	0.8930	0.0156	-0.0847	0.00112	0.00106	-0.00165	0.00058
400	1077.9	0.9476	0.0200	-0.0731	0.00132	0.00098	-0.00168	0.00070
450	1127.9	0.9927	0.0240	-0.0582	0.00151	0.00090	-0.00169	0.00079
500	1177.9	1.0302	0.0277	-0.0413	0.00168	0.00081	-0.00168	0.00086
600	1277.9	1.0878	0.0341	-0.0038	0.00197	0.00067	-0.00159	0.00092
700	1377.9	1.1284	0.0393	0.0358	0.00218	0.00056	-0.00142	0.00087
800	1477.9	1.1571	0.0439	0.0757	0.00233	0.00048	-0.00117	0.00069
900	1577.9	1.1773	0.0479	0.1153	0.00241	0.00044	-0.00085	0.00041
1000	1677.9	1.1911	0.0516	0.1540	0.00244	0.00043	-0.00047	0.00004
1100	1777.9	1.2000	0.0550	0.1918	0.00243	0.00045	-0.00003	-0.00042
1200	1877.9	1.2053	0.0583	0.2286	0.00238	0.00050	0.00046	-0.00096
1300	1977.9	1.2076	0.0614	0.2644	0.00230	0.00057	0.00099	-0.00156
1400	2077.9	1.2078	0.0645	0.2991	0.00219	0.00065	0.00157	-0.00222
1500	2177.9	1.2061	0.0675	0.3329	0.00205	0.00076	0.00218	-0.00294
1600	2277.9	1.2030	0.0705	0.3656	0.00189	0.00087	0.00283	-0.00370
1700	2377.9	1.1988	0.0735	0.3974	0.00170	0.00101	0.00350	-0.00451
1800	2477.9	1.1937	0.0765	0.4284	0.00150	0.00115	0.00421	-0.00536
1900	2577.9	1.1878	0.0795	0.4584	0.00128	0.00130	0.00495	-0.00625
2000	2677.9	1.1814	0.0825	0.4876	0.00104	0.00146	0.00571	-0.00717
2500	3177.9	1.1437	0.0975	0.6219	-0.00041	0.00238	0.00986	-0.01224
3000	3677.9	1.1024	0.1128	0.7394	-0.00220	0.00341	0.01448	-0.01789
3500	4177.9	1.0608	0.1281	0.8426	-0.00429	0.00450	0.01948	-0.02398
4000	4677.9	1.0205	0.1436	0.9338	-0.00665	0.00560	0.02479	-0.03040
4500	5177.9	0.9820	0.1589	1.0145	-0.00923	0.00670	0.03034	-0.03704
5000	5677.9	0.9454	0.1741	1.0861	-0.01201	0.00776	0.03608	-0.04384



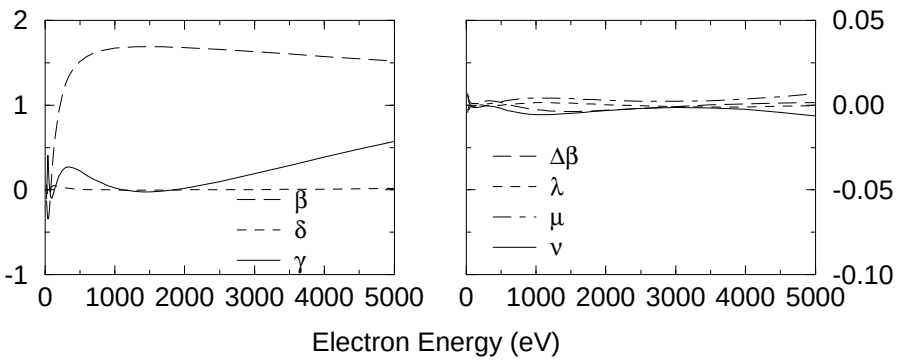
$4s$ shell of Xe $E_b = 217.7$ (eV) (δ negligible for ns shells)

E (eV)	ω (eV)	β	γ	$\Delta\beta$	λ	μ	ν
20	237.7	1.9215	0.1712	-0.00281	0.00173	0.00251	-0.00423
40	257.7	1.9326	0.2415	0.00124	-0.00035	-0.00040	0.00075
60	277.7	1.9407	0.2868	0.00096	-0.00002	0.00007	-0.00005
80	297.7	1.9467	0.3184	0.00030	0.00052	0.00082	-0.00134
100	317.7	1.9513	0.3410	-0.00018	0.00095	0.00143	-0.00238
120	337.7	1.9548	0.3573	-0.00043	0.00124	0.00184	-0.00308
140	357.7	1.9577	0.3690	-0.00048	0.00142	0.00209	-0.00351
160	377.7	1.9600	0.3773	-0.00040	0.00151	0.00222	-0.00373
180	397.7	1.9619	0.3830	-0.00021	0.00154	0.00226	-0.00380
200	417.7	1.9635	0.3866	0.00003	0.00153	0.00225	-0.00378
250	467.7	1.9666	0.3891	0.00077	0.00140	0.00207	-0.00347
300	517.7	1.9688	0.3853	0.00154	0.00122	0.00182	-0.00304
350	567.7	1.9704	0.3775	0.00224	0.00105	0.00158	-0.00262
400	617.7	1.9717	0.3670	0.00283	0.00091	0.00138	-0.00229
450	667.7	1.9727	0.3548	0.00330	0.00081	0.00126	-0.00207
500	717.7	1.9735	0.3414	0.00366	0.00076	0.00119	-0.00195
600	817.7	1.9747	0.3124	0.00403	0.00080	0.00125	-0.00205
700	917.7	1.9757	0.2822	0.00402	0.00098	0.00151	-0.00249
800	1017.7	1.9764	0.2518	0.00373	0.00127	0.00192	-0.00319
900	1117.7	1.9771	0.2221	0.00323	0.00163	0.00243	-0.00406
1000	1217.7	1.9777	0.1933	0.00257	0.00204	0.00301	-0.00505
1100	1317.7	1.9782	0.1659	0.00182	0.00247	0.00362	-0.00608
1200	1417.7	1.9787	0.1399	0.00100	0.00290	0.00423	-0.00713
1300	1517.7	1.9792	0.1154	0.00017	0.00333	0.00483	-0.00816
1400	1617.7	1.9797	0.0925	-0.00068	0.00374	0.00541	-0.00915
1500	1717.7	1.9801	0.0711	-0.00151	0.00413	0.00596	-0.01009
1600	1817.7	1.9805	0.0513	-0.00231	0.00449	0.00646	-0.01095
1700	1917.7	1.9809	0.0329	-0.00307	0.00482	0.00693	-0.01174
1800	2017.7	1.9814	0.0160	-0.00379	0.00511	0.00734	-0.01246
1900	2117.7	1.9818	0.0005	-0.00446	0.00538	0.00772	-0.01309
2000	2217.7	1.9821	-0.0137	-0.00508	0.00561	0.00804	-0.01365
2500	2717.7	1.9839	-0.0671	-0.00745	0.00632	0.00905	-0.01538
3000	3217.7	1.9854	-0.0963	-0.00872	0.00646	0.00924	-0.01569
3500	3717.7	1.9867	-0.1072	-0.00917	0.00621	0.00888	-0.01509
4000	4217.7	1.9877	-0.1041	-0.00907	0.00573	0.00820	-0.01393
4500	4717.7	1.9885	-0.0902	-0.00858	0.00514	0.00736	-0.01250
5000	5217.7	1.9891	-0.0677	-0.00784	0.00450	0.00644	-0.01095



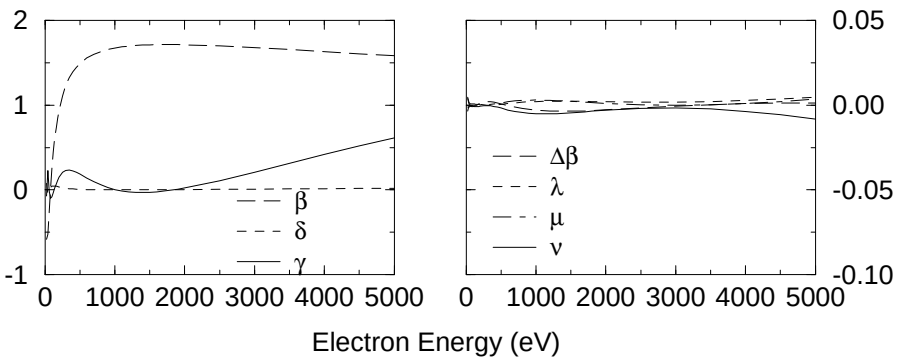
$4p_{1/2}$ shell of Xe $\quad E_b = 163.9$ (eV)

E (eV)	ω (eV)	β	δ	γ	$\Delta\beta$	λ	μ	ν
20	183.9	-0.1320	0.0624	-0.1017	0.00573	-0.00440	0.00685	-0.00245
40	203.9	-0.3940	-0.0716	0.4068	0.00146	-0.00033	0.00273	-0.00240
60	223.9	-0.2741	-0.0156	0.0696	-0.00015	-0.00031	0.00145	-0.00114
80	243.9	-0.0411	0.0234	-0.0816	-0.00092	-0.00024	0.00109	-0.00085
100	263.9	0.1954	0.0416	-0.0962	-0.00108	0.00002	0.00103	-0.00105
120	283.9	0.4031	0.0477	-0.0522	-0.00085	0.00026	0.00102	-0.00127
140	303.9	0.5773	0.0478	0.0087	-0.00042	0.00040	0.00097	-0.00137
160	323.9	0.7217	0.0452	0.0685	0.00011	0.00044	0.00090	-0.00133
180	343.9	0.8415	0.0415	0.1208	0.00064	0.00040	0.00080	-0.00120
200	363.9	0.9416	0.0375	0.1636	0.00113	0.00031	0.00071	-0.00102
250	413.9	1.1295	0.0283	0.2336	0.00205	0.00002	0.00057	-0.00059
300	463.9	1.2583	0.0210	0.2640	0.00248	-0.00021	0.00063	-0.00042
350	513.9	1.3508	0.0156	0.2698	0.00253	-0.00031	0.00086	-0.00055
400	563.9	1.4197	0.0116	0.2609	0.00230	-0.00028	0.00119	-0.00091
450	613.9	1.4724	0.0086	0.2434	0.00190	-0.00016	0.00158	-0.00142
500	663.9	1.5137	0.0063	0.2215	0.00142	0.00001	0.00198	-0.00200
600	763.9	1.5731	0.0033	0.1729	0.00038	0.00041	0.00273	-0.00314
700	863.9	1.6126	0.0015	0.1260	-0.00061	0.00079	0.00332	-0.00411
800	963.9	1.6397	0.0003	0.0848	-0.00146	0.00109	0.00375	-0.00483
900	1063.9	1.6584	-0.0003	0.0508	-0.00215	0.00129	0.00402	-0.00531
1000	1163.9	1.6714	-0.0008	0.0239	-0.00270	0.00141	0.00416	-0.00557
1100	1263.9	1.6803	-0.0010	0.0039	-0.00310	0.00145	0.00421	-0.00566
1200	1363.9	1.6860	-0.0012	-0.0101	-0.00338	0.00143	0.00418	-0.00561
1300	1463.9	1.6894	-0.0012	-0.0188	-0.00357	0.00136	0.00409	-0.00545
1400	1563.9	1.6910	-0.0012	-0.0229	-0.00366	0.00126	0.00395	-0.00521
1500	1663.9	1.6912	-0.0012	-0.0230	-0.00368	0.00112	0.00379	-0.00492
1600	1763.9	1.6903	-0.0011	-0.0196	-0.00364	0.00097	0.00362	-0.00459
1700	1863.9	1.6885	-0.0010	-0.0135	-0.00355	0.00081	0.00343	-0.00424
1800	1963.9	1.6859	-0.0008	-0.0048	-0.00342	0.00063	0.00325	-0.00388
1900	2063.9	1.6828	-0.0006	0.0058	-0.00326	0.00046	0.00307	-0.00353
2000	2163.9	1.6791	-0.0004	0.0182	-0.00308	0.00029	0.00290	-0.00319
2500	2663.9	1.6564	0.0012	0.0974	-0.00197	-0.00045	0.00230	-0.00184
3000	3163.9	1.6299	0.0033	0.1911	-0.00085	-0.00093	0.00221	-0.00128
3500	3663.9	1.6024	0.0060	0.2888	0.00008	-0.00111	0.00265	-0.00155
4000	4163.9	1.5750	0.0091	0.3858	0.00076	-0.00103	0.00359	-0.00256
4500	4663.9	1.5482	0.0125	0.4801	0.00119	-0.00073	0.00495	-0.00422
5000	5163.9	1.5222	0.0162	0.5709	0.00138	-0.00024	0.00668	-0.00644



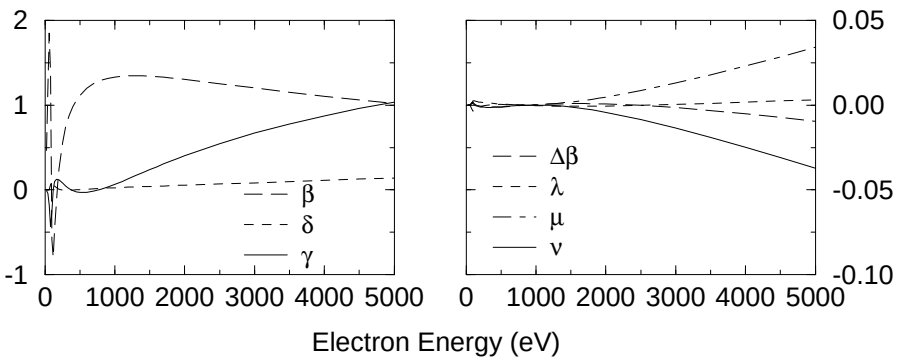
$4p_{3/2}$ shell of Xe $\quad E_b = 156.5$ (eV)

E (eV)	ω (eV)	β	δ	γ	$\Delta\beta$	λ	μ	ν
20	176.5	-0.5825	0.0761	-0.0729	0.00389	-0.00352	0.00464	-0.00111
40	196.5	-0.5230	-0.0476	0.2288	0.00066	-0.00041	0.00160	-0.00119
60	216.5	-0.2609	-0.0021	-0.0123	-0.00048	-0.00035	0.00083	-0.00048
80	236.5	0.0119	0.0283	-0.0957	-0.00096	-0.00022	0.00066	-0.00044
100	256.5	0.2482	0.0420	-0.0842	-0.00097	0.00003	0.00065	-0.00068
120	276.5	0.4434	0.0463	-0.0366	-0.00071	0.00026	0.00063	-0.00089
140	296.5	0.6031	0.0458	0.0186	-0.00030	0.00040	0.00058	-0.00097
160	316.5	0.7346	0.0432	0.0700	0.00016	0.00046	0.00049	-0.00094
180	336.5	0.8439	0.0397	0.1138	0.00061	0.00044	0.00039	-0.00083
200	356.5	0.9356	0.0359	0.1492	0.00101	0.00039	0.00029	-0.00068
250	406.5	1.1104	0.0273	0.2060	0.00171	0.00019	0.00016	-0.00035
300	456.5	1.2333	0.0203	0.2295	0.00199	0.00004	0.00021	-0.00025
350	506.5	1.3238	0.0151	0.2322	0.00193	0.00001	0.00040	-0.00041
400	556.5	1.3929	0.0111	0.2224	0.00165	0.00008	0.00069	-0.00077
450	606.5	1.4471	0.0082	0.2055	0.00123	0.00023	0.00103	-0.00125
500	656.5	1.4905	0.0060	0.1848	0.00075	0.00043	0.00136	-0.00179
600	756.5	1.5551	0.0032	0.1396	-0.00024	0.00088	0.00198	-0.00286
700	856.5	1.6001	0.0016	0.0964	-0.00115	0.00131	0.00244	-0.00375
800	956.5	1.6325	0.0009	0.0589	-0.00190	0.00168	0.00275	-0.00442
900	1056.5	1.6563	0.0006	0.0283	-0.00250	0.00195	0.00291	-0.00486
1000	1156.5	1.6739	0.0005	0.0046	-0.00296	0.00215	0.00296	-0.00511
1100	1256.5	1.6871	0.0006	-0.0126	-0.00328	0.00228	0.00291	-0.00519
1200	1356.5	1.6968	0.0009	-0.0239	-0.00349	0.00235	0.00280	-0.00514
1300	1456.5	1.7039	0.0012	-0.0301	-0.00360	0.00237	0.00263	-0.00500
1400	1556.5	1.7089	0.0015	-0.0319	-0.00363	0.00235	0.00243	-0.00478
1500	1656.5	1.7122	0.0018	-0.0298	-0.00360	0.00231	0.00220	-0.00452
1600	1756.5	1.7142	0.0022	-0.0244	-0.00351	0.00226	0.00197	-0.00422
1700	1856.5	1.7150	0.0026	-0.0162	-0.00338	0.00219	0.00173	-0.00391
1800	1956.5	1.7149	0.0030	-0.0057	-0.00322	0.00211	0.00149	-0.00360
1900	2056.5	1.7141	0.0034	0.0068	-0.00303	0.00203	0.00126	-0.00330
2000	2156.5	1.7126	0.0038	0.0210	-0.00282	0.00196	0.00105	-0.00300
2500	2656.5	1.6987	0.0059	0.1084	-0.00166	0.00170	0.00023	-0.00193
3000	3156.5	1.6786	0.0083	0.2095	-0.00057	0.00174	-0.00006	-0.00168
3500	3656.5	1.6556	0.0109	0.3141	0.00028	0.00209	0.00021	-0.00229
4000	4156.5	1.6314	0.0138	0.4176	0.00085	0.00272	0.00096	-0.00368
4500	4656.5	1.6069	0.0169	0.5180	0.00114	0.00360	0.00214	-0.00574
5000	5156.5	1.5824	0.0202	0.6144	0.00118	0.00469	0.00369	-0.00837



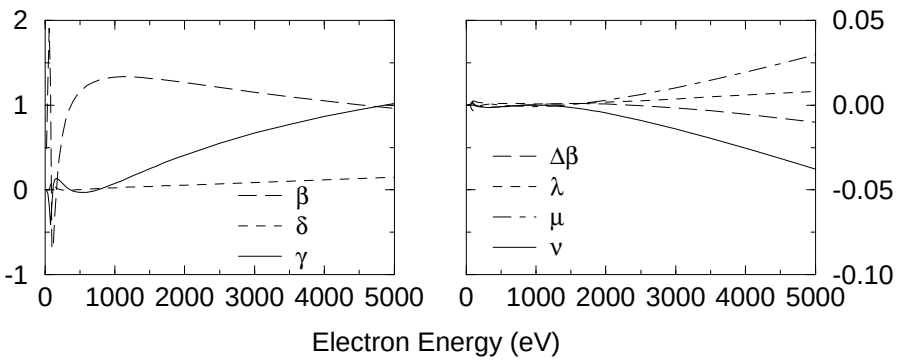
$4d_{3/2}$ shell of Xe $\quad E_b = 69.5$ (eV)

E (eV)	ω (eV)	β	δ	γ	$\Delta\beta$	λ	μ	ν
20	89.5	0.4652	0.0000	-0.0081	0.00002	0.00001	-0.00004	0.00002
40	109.5	1.1878	-0.0057	-0.0397	0.00010	0.00000	-0.00006	0.00006
60	129.5	1.8513	-0.0001	-0.1773	0.00049	-0.00033	0.00004	0.00030
80	149.5	1.3822	0.0593	-0.4328	0.00161	-0.00210	0.00107	0.00102
100	169.5	-0.5841	0.1054	-0.2608	0.00167	-0.00347	0.00257	0.00090
120	189.5	-0.7987	0.0724	0.0003	0.00070	-0.00262	0.00251	0.00011
140	209.5	-0.4664	0.0441	0.0950	0.00010	-0.00186	0.00222	-0.00037
160	229.5	-0.1631	0.0268	0.1225	-0.00024	-0.00136	0.00202	-0.00066
180	249.5	0.0696	0.0159	0.1249	-0.00047	-0.00101	0.00187	-0.00086
200	269.5	0.2487	0.0087	0.1166	-0.00064	-0.00075	0.00176	-0.00100
250	319.5	0.5544	-0.0007	0.0809	-0.00092	-0.00031	0.00154	-0.00123
300	369.5	0.7482	-0.0036	0.0437	-0.00108	-0.00002	0.00134	-0.00132
350	419.5	0.8826	-0.0035	0.0133	-0.00114	0.00017	0.00115	-0.00132
400	469.5	0.9813	-0.0019	-0.0088	-0.00114	0.00028	0.00098	-0.00126
450	519.5	1.0564	0.0004	-0.0230	-0.00110	0.00034	0.00081	-0.00115
500	569.5	1.1151	0.0031	-0.0305	-0.00101	0.00036	0.00066	-0.00102
600	669.5	1.1992	0.0085	-0.0304	-0.00077	0.00030	0.00041	-0.00071
700	769.5	1.2544	0.0135	-0.0163	-0.00049	0.00018	0.00024	-0.00042
800	869.5	1.2913	0.0180	0.0064	-0.00021	0.00003	0.00015	-0.00019
900	969.5	1.3158	0.0221	0.0345	0.00005	-0.00012	0.00016	-0.00004
1000	1069.5	1.3316	0.0258	0.0660	0.00028	-0.00027	0.00025	0.00002
1100	1169.5	1.3410	0.0292	0.0993	0.00047	-0.00040	0.00042	-0.00003
1200	1269.5	1.3456	0.0324	0.1337	0.00063	-0.00050	0.00067	-0.00017
1300	1369.5	1.3467	0.0355	0.1686	0.00075	-0.00059	0.00099	-0.00041
1400	1469.5	1.3450	0.0384	0.2034	0.00083	-0.00065	0.00138	-0.00073
1500	1569.5	1.3412	0.0413	0.2380	0.00087	-0.00068	0.00182	-0.00114
1600	1669.5	1.3358	0.0441	0.2721	0.00089	-0.00070	0.00232	-0.00163
1700	1769.5	1.3291	0.0469	0.3055	0.00087	-0.00069	0.00287	-0.00218
1800	1869.5	1.3214	0.0496	0.3382	0.00082	-0.00067	0.00347	-0.00279
1900	1969.5	1.3130	0.0524	0.3702	0.00074	-0.00063	0.00410	-0.00347
2000	2069.5	1.3039	0.0551	0.4013	0.00064	-0.00058	0.00477	-0.00419
2500	2569.5	1.2540	0.0690	0.5447	-0.00021	-0.00016	0.00859	-0.00844
3000	3069.5	1.2023	0.0831	0.6692	-0.00150	0.00043	0.01300	-0.01343
3500	3569.5	1.1524	0.0975	0.7780	-0.00315	0.00109	0.01784	-0.01893
4000	4069.5	1.1054	0.1119	0.8740	-0.00508	0.00177	0.02301	-0.02478
4500	4569.5	1.0616	0.1264	0.9593	-0.00725	0.00246	0.02845	-0.03091
5000	5069.5	1.0208	0.1408	1.0355	-0.00962	0.00313	0.03412	-0.03725



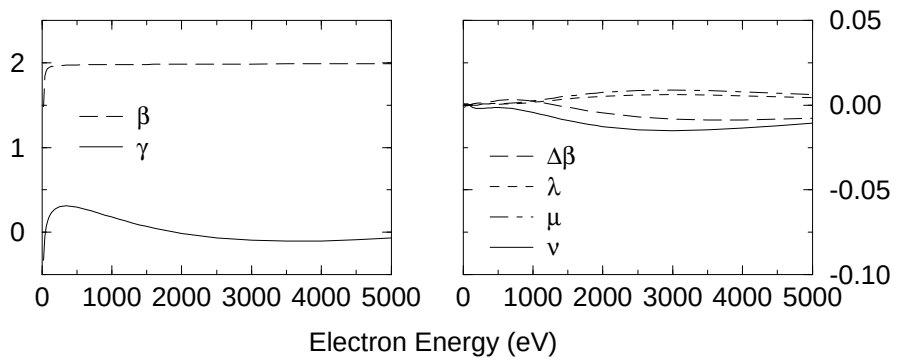
$4d_{5/2}$ shell of Xe $\quad E_b = 67.6$ (eV)

E (eV)	ω (eV)	β	δ	γ	$\Delta\beta$	λ	μ	ν
20	87.6	0.4894	0.0001	-0.0082	0.00002	0.00011	-0.00014	0.00002
40	107.6	1.2575	-0.0057	-0.0416	0.00010	0.00009	-0.00014	0.00006
60	127.6	1.9083	0.0004	-0.1847	0.00051	-0.00035	0.00003	0.00031
80	147.6	1.2137	0.0614	-0.4160	0.00168	-0.00236	0.00133	0.00103
100	167.6	-0.6848	0.0950	-0.1785	0.00150	-0.00327	0.00257	0.00070
120	187.6	-0.6989	0.0618	0.0494	0.00055	-0.00221	0.00226	-0.00005
140	207.6	-0.3340	0.0370	0.1196	0.00002	-0.00143	0.00191	-0.00048
160	227.6	-0.0339	0.0221	0.1348	-0.00030	-0.00095	0.00168	-0.00074
180	247.6	0.1902	0.0128	0.1303	-0.00051	-0.00061	0.00152	-0.00092
200	267.6	0.3606	0.0067	0.1179	-0.00067	-0.00035	0.00139	-0.00105
250	317.6	0.6482	-0.0011	0.0772	-0.00093	0.00011	0.00113	-0.00124
300	367.6	0.8280	-0.0034	0.0386	-0.00108	0.00042	0.00089	-0.00131
350	417.6	0.9511	-0.0030	0.0084	-0.00113	0.00063	0.00066	-0.00129
400	467.6	1.0401	-0.0013	-0.0126	-0.00113	0.00077	0.00045	-0.00122
450	517.6	1.1070	0.0009	-0.0254	-0.00107	0.00086	0.00024	-0.00110
500	567.6	1.1583	0.0035	-0.0315	-0.00098	0.00092	0.00004	-0.00096
600	667.6	1.2300	0.0086	-0.0284	-0.00074	0.00095	-0.00029	-0.00066
700	767.6	1.2750	0.0134	-0.0118	-0.00046	0.00092	-0.00054	-0.00038
800	867.6	1.3033	0.0178	0.0130	-0.00017	0.00088	-0.00071	-0.00017
900	967.6	1.3205	0.0217	0.0428	0.00009	0.00083	-0.00079	-0.00005
1000	1067.6	1.3299	0.0254	0.0754	0.00031	0.00080	-0.00078	-0.00002
1100	1167.6	1.3337	0.0289	0.1096	0.00050	0.00079	-0.00068	-0.00011
1200	1267.6	1.3334	0.0322	0.1446	0.00065	0.00080	-0.00051	-0.00029
1300	1367.6	1.3301	0.0353	0.1797	0.00077	0.00084	-0.00027	-0.00056
1400	1467.6	1.3245	0.0384	0.2147	0.00084	0.00089	0.00003	-0.00093
1500	1567.6	1.3172	0.0415	0.2492	0.00088	0.00098	0.00040	-0.00137
1600	1667.6	1.3086	0.0445	0.2830	0.00088	0.00108	0.00081	-0.00189
1700	1767.6	1.2990	0.0476	0.3161	0.00086	0.00120	0.00128	-0.00248
1800	1867.6	1.2887	0.0506	0.3483	0.00080	0.00134	0.00179	-0.00313
1900	1967.6	1.2779	0.0536	0.3797	0.00072	0.00149	0.00234	-0.00383
2000	2067.6	1.2667	0.0567	0.4102	0.00060	0.00166	0.00293	-0.00458
2500	2567.6	1.2086	0.0721	0.5496	-0.00029	0.00262	0.00632	-0.00894
3000	3067.6	1.1517	0.0880	0.6697	-0.00165	0.00370	0.01029	-0.01400
3500	3567.6	1.0985	0.1040	0.7740	-0.00337	0.00483	0.01470	-0.01952
4000	4067.6	1.0495	0.1201	0.8658	-0.00537	0.00594	0.01944	-0.02538
4500	4567.6	1.0045	0.1362	0.9473	-0.00761	0.00703	0.02447	-0.03150
5000	5067.6	0.9632	0.1521	1.0201	-0.01006	0.00808	0.02974	-0.03782



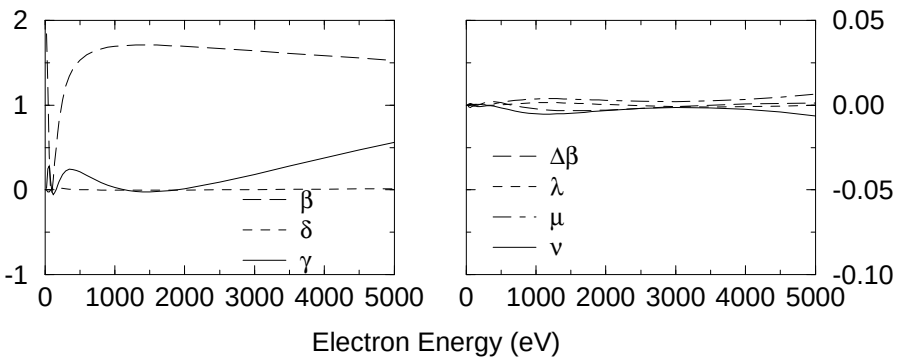
$5s$ shell of Xe $E_b = 23.4$ (eV) (δ negligible for ns shells)

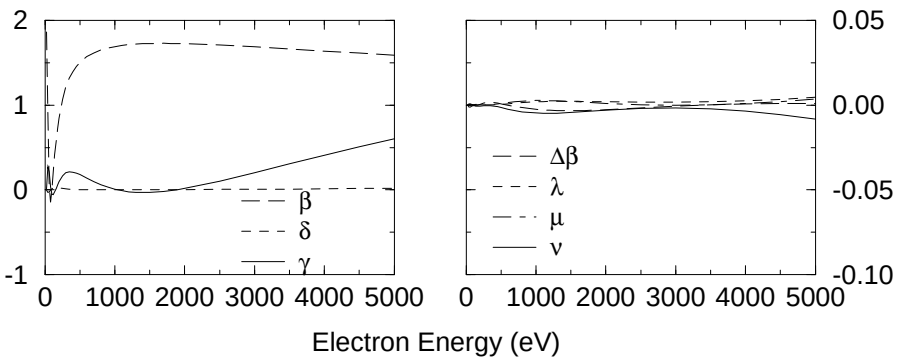
E (eV)	ω (eV)	β	γ	$\Delta\beta$	λ	μ	ν
20	43.4	1.4808	-0.3312	0.00042	0.00061	0.00090	-0.00151
40	63.4	1.8435	-0.0497	0.00047	-0.00026	-0.00033	0.00059
60	83.4	1.9057	0.0634	0.00061	-0.00033	-0.00042	0.00074
80	103.4	1.9295	0.1300	0.00041	-0.00012	-0.00013	0.00026
100	123.4	1.9420	0.1755	0.00017	0.00013	0.00022	-0.00035
120	143.4	1.9496	0.2089	-0.00002	0.00035	0.00054	-0.00089
140	163.4	1.9548	0.2341	-0.00012	0.00053	0.00079	-0.00132
160	183.4	1.9585	0.2536	-0.00014	0.00066	0.00097	-0.00163
180	203.4	1.9613	0.2687	-0.00008	0.00074	0.00110	-0.00184
200	223.4	1.9634	0.2805	0.00002	0.00080	0.00118	-0.00197
250	273.4	1.9672	0.2993	0.00045	0.00083	0.00122	-0.00205
300	323.4	1.9697	0.3080	0.00098	0.00078	0.00116	-0.00194
350	373.4	1.9715	0.3100	0.00151	0.00070	0.00106	-0.00177
400	423.4	1.9727	0.3077	0.00199	0.00063	0.00097	-0.00161
450	473.4	1.9737	0.3024	0.00240	0.00059	0.00091	-0.00150
500	523.4	1.9745	0.2949	0.00272	0.00057	0.00089	-0.00146
600	623.4	1.9757	0.2757	0.00313	0.00062	0.00098	-0.00160
700	723.4	1.9766	0.2532	0.00323	0.00079	0.00122	-0.00201
800	823.4	1.9773	0.2290	0.00309	0.00105	0.00159	-0.00263
900	923.4	1.9779	0.2042	0.00274	0.00137	0.00204	-0.00341
1000	1023.4	1.9784	0.1795	0.00225	0.00173	0.00256	-0.00430
1100	1123.4	1.9789	0.1552	0.00165	0.00213	0.00312	-0.00525
1200	1223.4	1.9793	0.1318	0.00097	0.00253	0.00369	-0.00622
1300	1323.4	1.9797	0.1094	0.00025	0.00293	0.00426	-0.00719
1400	1423.4	1.9802	0.0881	-0.00049	0.00333	0.00481	-0.00814
1500	1523.4	1.9805	0.0680	-0.00124	0.00370	0.00534	-0.00905
1600	1623.4	1.9809	0.0492	-0.00198	0.00405	0.00584	-0.00990
1700	1723.4	1.9813	0.0317	-0.00269	0.00438	0.00630	-0.01068
1800	1823.4	1.9817	0.0155	-0.00338	0.00468	0.00673	-0.01141
1900	1923.4	1.9821	0.0005	-0.00402	0.00495	0.00711	-0.01206
2000	2023.4	1.9824	-0.0133	-0.00463	0.00519	0.00744	-0.01263
2500	2523.4	1.9841	-0.0655	-0.00699	0.00597	0.00854	-0.01451
3000	3023.4	1.9855	-0.0944	-0.00831	0.00617	0.00882	-0.01499
3500	3523.4	1.9868	-0.1052	-0.00882	0.00597	0.00854	-0.01451
4000	4023.4	1.9878	-0.1023	-0.00876	0.00554	0.00793	-0.01347
4500	4523.4	1.9885	-0.0888	-0.00831	0.00498	0.00713	-0.01211
5000	5023.4	1.9891	-0.0667	-0.00763	0.00438	0.00627	-0.01065



$5p_{1/2}$ shell of Xe $\quad E_b = 13.4$ (eV)

E (eV)	ω (eV)	β	δ	γ	$\Delta\beta$	λ	μ	ν
20	33.4	1.8426	-0.0027	0.0191	-0.00008	0.00006	0.00008	-0.00014
40	53.4	1.2200	-0.0228	0.2497	0.00005	0.00038	0.00065	-0.00103
60	73.4	0.4160	-0.0241	0.2793	0.00032	0.00051	0.00086	-0.00137
80	93.4	-0.0141	-0.0054	0.1129	0.00033	0.00032	0.00059	-0.00091
100	113.4	-0.0422	0.0132	-0.0171	0.00010	0.00022	0.00037	-0.00060
120	133.4	0.1161	0.0239	-0.0557	-0.00008	0.00029	0.00032	-0.00060
140	153.4	0.3179	0.0280	-0.0369	-0.00010	0.00039	0.00034	-0.00073
160	173.4	0.5080	0.0284	0.0057	0.00003	0.00046	0.00036	-0.00082
180	193.4	0.6719	0.0270	0.0536	0.00027	0.00048	0.00036	-0.00084
200	213.4	0.8094	0.0247	0.0983	0.00057	0.00044	0.00035	-0.00079
250	263.4	1.0618	0.0185	0.1813	0.00129	0.00023	0.00031	-0.00053
300	313.4	1.2274	0.0133	0.2254	0.00179	0.00001	0.00035	-0.00036
350	363.4	1.3413	0.0093	0.2420	0.00198	-0.00012	0.00052	-0.00040
400	413.4	1.4231	0.0065	0.2413	0.00193	-0.00013	0.00078	-0.00065
450	463.4	1.4838	0.0044	0.2301	0.00171	-0.00006	0.00111	-0.00105
500	513.4	1.5301	0.0028	0.2129	0.00138	0.00007	0.00147	-0.00154
600	613.4	1.5946	0.0009	0.1705	0.00058	0.00041	0.00216	-0.00257
700	713.4	1.6358	-0.0002	0.1270	-0.00025	0.00076	0.00275	-0.00350
800	813.4	1.6631	-0.0008	0.0875	-0.00101	0.00104	0.00320	-0.00424
900	913.4	1.6815	-0.0012	0.0541	-0.00166	0.00125	0.00351	-0.00476
1000	1013.4	1.6938	-0.0014	0.0272	-0.00219	0.00138	0.00370	-0.00509
1100	1113.4	1.7018	-0.0015	0.0066	-0.00261	0.00144	0.00380	-0.00524
1200	1213.4	1.7067	-0.0016	-0.0082	-0.00292	0.00144	0.00382	-0.00526
1300	1313.4	1.7093	-0.0016	-0.0177	-0.00314	0.00139	0.00378	-0.00517
1400	1413.4	1.7101	-0.0015	-0.0227	-0.00328	0.00130	0.00369	-0.00499
1500	1513.4	1.7095	-0.0015	-0.0237	-0.00335	0.00118	0.00357	-0.00476
1600	1613.4	1.7078	-0.0014	-0.0213	-0.00335	0.00104	0.00343	-0.00447
1700	1713.4	1.7053	-0.0013	-0.0159	-0.00331	0.00089	0.00328	-0.00417
1800	1813.4	1.7021	-0.0012	-0.0080	-0.00322	0.00073	0.00312	-0.00385
1900	1913.4	1.6983	-0.0010	0.0020	-0.00310	0.00056	0.00296	-0.00352
2000	2013.4	1.6941	-0.0008	0.0137	-0.00295	0.00040	0.00280	-0.00320
2500	2513.4	1.6689	0.0006	0.0908	-0.00198	-0.00033	0.00224	-0.00191
3000	3013.4	1.6404	0.0026	0.1833	-0.00093	-0.00080	0.00215	-0.00135
3500	3513.4	1.6113	0.0051	0.2803	-0.00002	-0.00101	0.00254	-0.00153
4000	4013.4	1.5826	0.0081	0.3769	0.00066	-0.00096	0.00343	-0.00247
4500	4513.4	1.5548	0.0114	0.4708	0.00109	-0.00067	0.00474	-0.00407
5000	5013.4	1.5279	0.0151	0.5612	0.00125	-0.00014	0.00646	-0.00632



$5p_{3/2}$ shell of Xe $\quad E_b = 12.1$ (eV)

E (eV)	ω (eV)	β	δ	γ	$\Delta\beta$	λ	μ	ν
20	32.1	1.8608	-0.0027	0.0148	-0.00009	0.00007	0.00009	-0.00015
40	52.1	0.9115	-0.0289	0.2691	0.00014	0.00039	0.00068	-0.00107
60	72.1	0.0492	-0.0258	0.2142	0.00035	0.00040	0.00067	-0.00107
80	92.1	-0.1447	-0.0026	0.0366	0.00020	0.00018	0.00036	-0.00054
100	112.1	-0.0043	0.0152	-0.0485	-0.00005	0.00014	0.00022	-0.00035
120	132.1	0.2102	0.0243	-0.0540	-0.00016	0.00022	0.00020	-0.00042
140	152.1	0.4128	0.0276	-0.0229	-0.00012	0.00033	0.00022	-0.00055
160	172.1	0.5854	0.0278	0.0197	0.00004	0.00040	0.00022	-0.00062
180	192.1	0.7285	0.0265	0.0620	0.00028	0.00043	0.00020	-0.00062
200	212.1	0.8471	0.0245	0.0996	0.00055	0.00041	0.00016	-0.00057
250	262.1	1.0661	0.0187	0.1666	0.00114	0.00027	0.00008	-0.00035
300	312.1	1.2136	0.0137	0.2004	0.00149	0.00013	0.00010	-0.00023
350	362.1	1.3186	0.0098	0.2115	0.00157	0.00006	0.00024	-0.00030
400	412.1	1.3964	0.0069	0.2082	0.00144	0.00009	0.00047	-0.00056
450	462.1	1.4561	0.0047	0.1962	0.00117	0.00020	0.00075	-0.00095
500	512.1	1.5030	0.0031	0.1792	0.00082	0.00036	0.00105	-0.00141
600	612.1	1.5714	0.0011	0.1391	0.00001	0.00076	0.00161	-0.00237
700	712.1	1.6178	0.0002	0.0987	-0.00078	0.00116	0.00207	-0.00323
800	812.1	1.6505	-0.0002	0.0625	-0.00147	0.00151	0.00240	-0.00391
900	912.1	1.6741	-0.0003	0.0323	-0.00205	0.00179	0.00260	-0.00439
1000	1012.1	1.6914	-0.0002	0.0083	-0.00250	0.00200	0.00269	-0.00469
1100	1112.1	1.7040	0.0000	-0.0095	-0.00285	0.00214	0.00269	-0.00483
1200	1212.1	1.7132	0.0003	-0.0217	-0.00309	0.00222	0.00262	-0.00484
1300	1312.1	1.7197	0.0007	-0.0288	-0.00324	0.00226	0.00250	-0.00475
1400	1412.1	1.7241	0.0010	-0.0315	-0.00332	0.00226	0.00234	-0.00460
1500	1512.1	1.7269	0.0014	-0.0304	-0.00334	0.00224	0.00215	-0.00439
1600	1612.1	1.7283	0.0017	-0.0259	-0.00329	0.00219	0.00194	-0.00412
1700	1712.1	1.7286	0.0021	-0.0186	-0.00320	0.00213	0.00173	-0.00386
1800	1812.1	1.7281	0.0025	-0.0088	-0.00308	0.00206	0.00151	-0.00357
1900	1912.1	1.7268	0.0028	0.0030	-0.00292	0.00199	0.00129	-0.00329
2000	2012.1	1.7249	0.0032	0.0166	-0.00274	0.00192	0.00109	-0.00301
2500	2512.1	1.7091	0.0052	0.1018	-0.00169	0.00168	0.00029	-0.00197
3000	3012.1	1.6874	0.0075	0.2017	-0.00067	0.00172	0.00000	-0.00172
3500	3512.1	1.6632	0.0100	0.3055	0.00018	0.00203	0.00020	-0.00223
4000	4012.1	1.6380	0.0128	0.4085	0.00076	0.00262	0.00090	-0.00352
4500	4512.1	1.6126	0.0158	0.5085	0.00107	0.00347	0.00201	-0.00548
5000	5012.1	1.5875	0.0192	0.6046	0.00106	0.00462	0.00357	-0.00819