

CdSeZnS	A <sub>1</sub>	τ <sub>1</sub>	β	A <sub>2</sub>	τ <sub>2</sub>	bgrnd (cnts)	χ <sup>2</sup>
0	7341.5	1.151	0.507	8134.9	0.028	2.8	0.942
1	9361.6	0.997	0.493	11970.3	0.028	2.9	0.981
2	10569.3	0.849	0.482	12406.3	0.046	3.4	1.074
3	10496.4	0.761	0.473	14028	0.03	3	1.118
4	9873.8	0.764	0.476	13356.4	0.034	2.8	1.042
5	9562.8	0.729	0.472	12273.4	0.036	2.8	1.035
6	9936.1	0.651	0.461	12616.8	0.035	2.6	1.037
7	9650.7	0.67	0.465	11210.6	0.043	2.5	1.095
8	9688.7	0.674	0.464	13626.8	0.029	2.6	1.024
9	9601.3	0.726	0.468	15428.5	0.001	3.1	1.007
10	9086	0.709	0.469	12761.3	0.031	2.7	1.029
11	9505.7	0.653	0.49	12597.8	0.035	2.7	0.973
12	10146.9	0.574	0.447	13379.9	0.025	1.8	1.033
13	8982.9	0.661	0.462	12589.9	0.023	2.3	0.974
14	8880.8	0.662	0.462	13004.8	0.022	2.4	0.99
15	8931.8	0.61	0.454	12590.9	0.017	1.9	0.982
16	8439.8	0.664	0.464	12233	0.027	2.4	1.046
17	8421.8	0.647	0.461	11776.2	0.029	2.3	1.033
18	8322.6	0.648	0.461	12202.6	0.026	2.2	0.983
19	8089.6	0.664	0.464	10933.2	0.029	2.2	0.961

CdSeZnS-BME	A <sub>1</sub>	τ <sub>1</sub>	β	A <sub>2</sub>	τ <sub>2</sub>	bgrnd (cnts)	χ <sup>2</sup>
0	15877.4	0.489	0.463	23359.6	0.063	5	1.163
1	9909.9	0.52	0.456	20725.1	0.057	3.4	1.132
2	10130.4	0.576	0.474	19439.6	0.053	3.2	1.173
3	11096	0.545	0.473	19618	0.059	3.8	1.168
4	10322.5	0.504	0.46	20510.6	0.056	3.2	1.15
5	9654.9	0.542	0.463	19699.5	0.064	3.7	1.084
6	9390.1	0.511	0.451	20228.6	0.067	3.1	1.215
7	8918.6	0.679	0.474	20059.8	0.075	4.1	1.166
8	8519.8	0.735	0.482	19661.8	0.079	4.5	1.198
9	9570.7	0.72	0.474	20158.8	0.077	4.2	1.347
10	9545.8	0.788	0.483	21657.6	0.077	4.7	1.214
11	9639.5	0.81	0.485	22676.2	0.076	5	1.235
12	9809.9	0.875	0.493	23099.9	0.079	5.9	1.243
13	9219.5	0.787	0.483	22068.8	0.076	4.9	1.271
14	9950.6	0.8	0.482	21610.2	0.08	5	1.207
15	10281.9	0.794	0.479	23631.9	0.071	4.9	1.168
16	10996.6	0.844	0.481	23356.5	0.078	5.1	1.245
17	12029.8	0.835	0.478	23899.8	0.079	5.8	1.279
18	11284.9	0.836	0.488	24602.5	0.08	6.6	1.223
19	11069.4	0.824	0.479	23419.8	0.077	5.4	1.256

CdSeZnS- HighDA	$A_1$	$\tau_1$	$\beta$	$A_2$	$\tau_2$	bgrnd (cnts)	$\chi^2$
0	3275.8	1.253	0.47	7561.7	0.051	0.7	0.906
1	3485.8	1.738	0.496	7481.1	0.056	0.9	0.852
2	4030	2.823	0.542	6697	0.077	0.7	0.909
3	4742.4	3.432	0.568	7452.7	0.075	1.1	0.906
4	5000.6	4.755	0.612	6829.6	0.086	1.4	0.972
5	4784.7	4.728	0.61	6800.2	0.079	1.2	1
6	4255.4	5.734	0.64	4884.9	0.092	1.3	0.988
7	3773.2	6.295	0.655	3948	0.093	1.3	0.94
8	3518.5	6.188	0.651	4534.9	0.073	1.1	0.947
9	2981.8	6.975	0.675	2934.1	0.094	1.3	0.923
10	3072	6.842	0.668	3006	0.096	1.3	0.949
11	3075.7	6.907	0.67	3838.2	0.069	1.2	0.944
12	2702.6	7.03	0.672	2540.7	0.086	1.1	0.918
13	2989.6	6.605	0.661	2679.7	0.113	1.2	0.941
14	3090.2	6.887	0.669	3191.7	0.085	1.4	0.941
15	4032.8	6.742	0.666	4984.1	0.085	2	0.942
16	3839.6	7.133	0.674	3661.7	0.099	1.9	0.967
17	3548.2	7.366	0.679	2889.5	0.122	1.9	1.003
18	3352.1	7.62	0.687	2908.8	0.109	2	1.006
19	3804.6	6.99	0.666	4261.4	0.078	1.8	0.965

CdSeZnS-LowDA	A <sub>1</sub>	τ <sub>1</sub>	β	A <sub>2</sub>	τ <sub>2</sub>	bgrnd (cnts)	χ <sup>2</sup>
0	3834.5	1.339	0.478	7928.4	0.059	1.1	0.87
1	4350.1	2.399	0.527	7515.6	0.074	1	0.919
2	4661.3	3.041	0.551	7243.4	0.084	1	1.005
3	4867.3	4.773	0.608	7082.1	0.074	1	0.982
4	5195.6	3.561	0.57	8203.7	0.068	0.9	1.048
5	4785.9	5.876	0.642	5560.3	0.084	1.4	0.977
6	5137.2	4.687	0.605	7108.8	0.081	1.2	1.084
7	3149.8	6.879	0.664	2831.1	0.107	1	0.947
8	3459.2	6.355	0.651	4757.3	0.067	1	0.984
9	3588.8	5.714	0.638	4327.7	0.095	1.2	0.99
10	2962.7	6.639	0.661	3081.6	0.107	1.3	0.947
11	2800.2	6.829	0.667	2843.5	0.106	1.5	0.947
12	2858.7	6.864	0.665	3566.7	0.077	1.2	1.012
13	3035.8	6.856	0.664	3071.7	0.111	1.4	0.904
14	3139.5	6.846	0.662	3251.9	0.098	1.4	0.99
15	3477.2	6.723	0.661	3977.6	0.098	1.9	0.977
16	3477	7.075	0.669	4022.4	0.084	2	0.935
17	3319.3	7.596	0.684	4155.9	0.075	2.2	1.032
18	3986.7	6.697	0.657	5172.5	0.084	2.3	0.986
19	4029.9	7.486	0.68	4452.7	0.107	3	0.995

CdSeZnS-DA-BME	A <sub>1</sub>	$\tau_1$	$\beta$	A <sub>2</sub>	$\tau_2$	bgrnd (cnts)	$\chi^2$
0	3007.6	1.272	0.463	9876.5	0.06	1.6	0.888
1	3142.1	1.73	0.489	9847.7	0.062	1.6	0.86
2	3080.2	2.25	0.516	8676.1	0.079	1.7	0.957
3	2980.3	2.56	0.53	8953.5	0.08	1.6	1.06
4	2786.1	2.457	0.522	8441.2	0.085	1.7	0.904
5	2515.6	2.391	0.518	8153	0.085	1.5	0.917
6	2468.7	2.203	0.506	8744	0.078	1.4	0.936
7	2198.1	1.942	0.494	7876.7	0.081	1.3	1.015
8	2002.6	1.595	0.474	7976.8	0.072	1.4	0.954
9	1948.4	1.913	0.491	7939.7	0.076	1.2	0.943
10	1841.3	2.023	0.497	7734.8	0.079	1.2	0.88
11	1738	1.19	0.444	8363.5	0.058	1.2	0.98
12	1787.5	0.993	0.428	8912.1	0.045	1	0.854
13	1685.8	1.085	0.435	7503.1	0.061	1	0.899
14	1634.3	1.18	0.445	7436.5	0.065	1.1	0.894
15	1562.6	1.232	0.447	7373	0.062	0.9	0.925
16	1567.3	1.248	0.446	7204.2	0.068	0.7	0.949
17	1450.9	1.329	0.456	7082	0.071	0.9	0.908
18	1465.6	1.021	0.43	7132.1	0.062	0.8	0.915
19	1487	0.924	0.423	7251.5	0.064	0.9	0.912

CdTe	A	$\tau$ (ns)	$\beta$	bgrnd (dec)	$\chi^2$
0	963.3	17.568	0.842	0.3	1.847
1	410.7	17.8608	0.853	0.4	0.773
2	383.3	17.9096	0.85	0.3	0.762
3	324.3	18.8856	0.874	0.4	0.795
4	289.3	18.2512	0.857	0.3	0.782
5	263.5	18.1048	0.849	0.3	0.711
6	246.1	19.3736	0.884	0.4	0.704
7	257.1	18.788	0.871	0.3	0.708
8	261.5	18.544	0.867	0.3	0.736
9	271.2	18.6416	0.868	0.3	0.717
10	275.7	17.9096	0.848	0.3	0.742
11	247.8	18.4952	0.857	0.3	0.726
12	220.4	19.3736	0.881	0.3	0.731
13	206.4	19.276	0.883	0.3	0.739
14	200.6	19.3248	0.884	0.3	0.749
15	187.3	18.7392	0.871	0.3	0.75
16	177.7	19.1296	0.881	0.3	0.673
17	186.6	19.6664	0.889	0.3	0.67
18	180	17.9096	0.844	0.2	0.684

CdTe-BME	A	$\tau$ (ns)	$\beta$	bgrnd (dec)	$\chi^2$
0	324.3	6.602	0.628	0.1	0.701
1	323.5	6.952	0.629	0.1	0.73
2	316.7	7.443	0.646	0.1	0.728
3	359	7.345	0.644	0.1	0.682
4	386.5	7.137	0.639	0.1	0.873
5	411.4	6.467	0.611	0	0.781
6	400.7	6.694	0.623	0.1	0.699
7	413.7	7.087	0.643	0.2	0.794
8	426.8	6.8	0.628	0.1	0.728
9	402	6.648	0.627	0.2	0.775
10	389.8	6.809	0.629	0.1	0.744
11	360.4	6.471	0.614	0	0.754
12	381.1	6.71	0.626	0.2	0.683
13	368.6	6.549	0.612	-0.1	0.742
14	337.1	7.145	0.637	0.2	0.732
15	300.5	7.059	0.634	0.2	0.622
16	264.4	7.229	0.637	0.2	0.664
17	311.6	7.208	0.626	0	0.762
18	345.5	7.2	0.63	0	0.792

CdTe-High DA	A	$\tau$ (ns)	$\beta$	bgrnd (dec)	$\chi^2$
0	1156	0.009	0.22	-1.5	0.766
1	1179.2	0.015	0.228	-1.5	0.738
2	1187.1	0.014	0.219	-2.2	0.979
3	733.9	0.105	0.277	-1.4	0.786
4	550	0.165	0.298	-1.2	0.887
5	412.8	0.303	0.323	-1.2	0.805
6	283.3	1.053	0.404	-0.8	0.743
7	223.3	1.163	0.417	-0.4	0.723
8	230.1	1.491	0.434	-0.9	0.862
9	185.4	3.22	0.561	-0.1	0.831
10	186.1	2.954	0.541	-0.1	0.841
11	200.1	2.097	0.474	-0.7	0.898
12	149.5	3.932	0.613	0.3	0.684
13	133.4	4.503	0.629	0.2	0.74
14	134.5	4.32	0.598	-0.1	0.83
15	137.1	5.846	0.699	0.5	0.662
16	132.4	4.32	0.593	0	0.761
17	163.4	3.645	0.576	0.2	0.75
18	127.6	4.754	0.616	0	0.8
19	121.4	4.394	0.601	0.1	0.702



CdTe-LowDA	A	$\tau$ (ns)	$\beta$	bgrnd (dec)	$\chi^2$
0	359.7	0.246	0.321	-0.7	0.749
1	199.8	1.531	0.452	-0.4	0.771
2	227.9	0.966	0.407	-0.6	0.784
3	272.1	0.994	0.414	-0.5	0.83
4	185.9	3.596	0.596	0.3	0.747
5	167.5	3.304	0.55	0	0.711
6	147.3	3.631	0.585	0.2	0.72
7	145.2	3.953	0.577	0	0.741
8	128	3.958	0.585	0.1	0.833
9	135.3	4.29	0.603	0.2	0.62
10	125.3	5.053	0.62	0.2	0.697
11	116.4	5.104	0.624	0.2	0.722
12	119.3	4.778	0.622	0.3	0.68
13	103.2	5.148	0.642	0.3	0.667
14	96.3	5.559	0.681	0.4	0.728
15	102.2	4.334	0.596	0.2	0.73
16	156.9	5.382	0.66	0.4	0.65
17	160.1	4.566	0.584	0.1	0.728
18	108	4.79	0.606	0.2	0.725
19	14.3	4.972	0.616	0.1	0.733

CdTe- HighDABME	A	$\tau$ (ns)	$\beta$	bgrnd (dec)	$\chi^2$
0	1459.8	0.099	0.295	-1.2	0.925
1	661.2	0.199	0.301	-1.6	0.823
2	339.7	1.192	0.426	-0.6	0.842
3	289.4	2.23	0.495	-0.2	0.842
4	252.6	3.489	0.556	-0.2	0.818
5	244.8	2.893	0.52	-0.3	0.843
6	198.8	4.431	0.613	0.2	0.76
7	191.8	3.35	0.549	-0.1	0.743
8	190.9	5.086	0.635	0.1	0.781
9	181.2	3.18	0.525	-0.3	0.751
10	174.3	3.427	0.542	-0.1	0.688
11	150	4.946	0.623	0.2	0.759
12	153.8	5.103	0.629	0.1	0.812
13	165.3	3.071	0.523	-0.4	0.805
14	147.9	4.295	0.596	0.1	0.704
15	143.6	3.724	0.56	-0.1	0.79
16	128.6	5.786	0.678	0.3	0.725
17	141.7	5.26	0.649	0.2	0.684
18	136.4	4.278	0.594	-0.1	0.879
19	151.1	2.817	0.51	-0.4	0.805