

TH232

Cu	$< 2.92 \cdot 10^{-13}$ g/g	1.2 $\mu\text{Bk/kg}$
Fe	$< 1.07 \cdot 10^{-9}$ g/g	4.33 $\mu\text{Bk/g}$
Pb shield	$< 1.37 \cdot 10^{-12}$ g/g	5.58 $\mu\text{Bk/kg}$
Bronze	$< 1.55 \cdot 10^{-9}$ g/g	6.41 $\mu\text{Bk/g}$
Teflon	$< 5.95 \cdot 10^{-11}$ g/g	0.23 mBk/kg
Vespel	$< 4.00 \cdot 10^{-13}$ g/g	1.62 $\mu\text{Bk/kg}$

Out surface:

Det 1	< 0.31 $\mu\text{Bk/cm}^2$
Det 2	$< 2.1 \cdot 10^{-3}$ nBk/cm ²
Det 3	< 0.35 $\mu\text{Bk/cm}^2$
Det 4	< 0.37 $\mu\text{Bk/cm}^2$
Det 5	< 0.161 $\mu\text{Bk/cm}^2$

Inner surface:

0.08 $\mu\text{Bk/cm}^2$
0.149 $\mu\text{Bk/cm}^2$
0.27 $\mu\text{Bk/cm}^2$
0.297 $\mu\text{Bk/cm}^2$
0.058 $\mu\text{Bk/cm}^2$

U238

Cu	$< 7.4 \cdot 10^{-13}$ g/g	9.2 $\mu\text{Bk/kg}$
Fe	$< 2.3 \cdot 10^{-10}$ g/g	2.87 $\mu\text{Bk/g}$
Pb shield	$< 6.1 \cdot 10^{-13}$ g/g	7.55 $\mu\text{Bk/kg}$
Bronze	$< 2.7 \cdot 10^{-13}$ g/g	3.30 $\mu\text{Bk/kg}$
Teflon	$< 2.4 \cdot 10^{-11}$ g/g	0.30 mBk/kg
Vespel	$< 8.6 \cdot 10^{-12}$ g/g	0.11 mBk/kg

Air 1,2,3,5- 0.184 $\mu\text{Bk/cm}^3$ 4 - 0.470 $\mu\text{Bk/cm}^3$

Out surface:

Det 1	< 0.09 $\mu\text{Bk/cm}^2$
Det 2	$< 2.1 \cdot 10^{-3}$ nBk/cm ²
Det 3	< 0.04 $\mu\text{Bk/cm}^2$
Det 4	< 0.106 $\mu\text{Bk/cm}^2$
Det 5	< 0.126 $\mu\text{Bk/cm}^2$

Inner surface:

0.03 nBk/cm ²
0.161 $\mu\text{Bk/cm}^2$
0.106 $\mu\text{Bk/cm}^2$
0.307 $\mu\text{Bk/cm}^2$
0.111 $\mu\text{Bk/cm}^2$

Table 1

Energy (Mev)	Experimental data	Sum	Pb shield	Air	Detector surface	Detector	2wv mode	Cu	Fe	Cs spot	Bronzet+ Teflon+ Vespel
0-0.1	7.790	11.556	4.411	1.521	1.378	.136	.277	1.112	1.408	1.132	.178
0.1-0.5	19.808	18.922	7.069	2.385	1.594	.063	1.673	1.754	2.102	2.030	.248
0.5-1.0	6.664	6.654	.614	.585	.576	.054	2.607	.630	.735	.771	.081
1.0-1.5	2.941	3.003	.144	.259	.209	.071	1.018	.398	.881	.001	.022
1.5-2.0	.414	.428	.028	.131	.102	.031	.051	.053	.018	.000	.013
2.0-2.8	.146	.147	.013	.017	.051	.021	.000	.017	.018	.000	.008
2.0-2.1	.164	.155	.011	.024	.049	.027	.000	.025	.013	.000	.006

Table 2

Energy (Mev)	Experimental data	Sum	Pb shield	Air	Detector surface	Detector	2v mode	Cu	Fe	Cs spot	Bronzet+ Telfont+ Vespel
0-0.1	69.14	100.00	38.17	13.16	11.93	1.18	2.39	9.63	12.19	9.80	1.54
0.1-0.5	104.68	100.00	37.36	12.60	8.42	.33	8.84	9.27	11.11	10.73	1.31
0.5-1.0	100.15	100.00	9.22	8.80	8.66	.81	39.18	9.46	11.05	11.58	1.22
1.0-1.5	97.94	100.00	4.80	8.62	6.97	2.36	33.90	13.25	29.33	0.03	0.73
1.5-2.0	96.61	100.00	6.62	30.52	23.88	7.32	11.90	12.45	4.29	0.00	2.98
2.0-2.8	99.31	100.00	9.13	11.87	34.70	14.32	0.00	11.49	12.48	0.00	5.58
2.0-2.1	105.86	100.00	7.35	15.48	31.24	17.21	0.00	16.37	8.38	0.00	3.89

detector number	total mass [kg]	active mass [kg]	enrichment in ^{76}Ge [%]	FWHM at 1332 keV [keV]
enr#1	0.980	0.920	85.9 ± 1.3	2.22 ± 0.02
enr#2	2.906	2.758	86.6 ± 2.5	2.43 ± 0.03
enr#3	2.446	2.324	88.3 ± 2.6	2.71 ± 0.03
enr#4	2.400	2.295	86.3 ± 1.3	2.14 ± 0.04
enr#5	2.781	2.666	85.6 ± 1.3	2.55 ± 0.05

Table 1: *Technical parameters of the five enriched detectors*