

Table 5: Time for the counter to register 1000 particles through 1 to 7 graphite slabs of thickness $7.5\text{mm} \pm 0.05\text{mm}$, the natural log of the number of counts minus the expected count due to background radiation, and the error on each data point

number of slabs	seconds t	end count n	$\ln(n/t - 0.42)$	σ
1	213	1000	1.45	0.033
2	226	999	1.39	0.034
3	255	999	1.25	0.034
4	267	1001	1.20	0.034
5	292	1000	1.10	0.035
6	306	1000	1.05	0.035
7	358	1000	0.86	0.037