

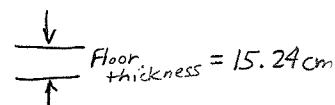
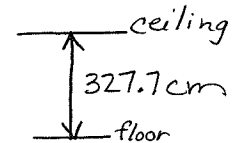
Silencing the Cosmic Ray Data Tables

Control

	Trial 1	Trial 2	Trial 3	Average	Trial 4	Trial 5
Number of counts N	102	60	51	55	54	
Count Rate (N/t)	34/min	20/min	17	18.3	18	
Error in Count Rate $\sigma_{CR} \frac{\sqrt{N}}{t, \text{min}}$	3.37	2.58	2.38	2.47	2.45	

Background (Wall)

	Trial 1	Trial 2	Trial 3	Average
Number of counts N	15	14	14	14.3
Count Rate (N/t) counts/min	5	4.7	4.7	4.8
Error in Count Rate σ_{CR}	1.29	1.25	1.25	1.26



Basement Level 2

	Trial 1	Trial 2	Trial 3	Average
Number of counts N	39	38	31	36
Count Rate (N/t)	13	13	10	12
Error in Count Rate σ_{CR}	2.1	2.1	1.9	2
Amount of concrete shielding + Air	$\approx 90 \text{ cm}$			

Basement Level 1

	Trial 1	Trial 2	Trial 3	Average
Number of counts N	33	33	41	36
Count Rate (N/t)	11	11	14	12
Error in Count Rate σ_{CR}	1.9	1.9	2.1	2.0
Amount of concrete shielding + Air	$\approx 75 \text{ cm}$			

Ground Level

	Trial 1	Trial 2	Trial 3	Average
Number of counts N	32	32	32	32
Count Rate (N/t)	11	11	11	11
Error in Count Rate σ_{CR}	1.9	1.9	1.9	1.9
Amount of concrete shielding + Air	$\approx 60 \text{ cm}$			

25.4 cm thick

Silencing the Cosmic Ray Data Tables

Level 1

	Trial 1	Trial 2	Trial 3	Average
Number of counts N	39	32	48	40
Count Rate (N/t)	13	11	16	13
Error in Count Rate σ_{CR}	2.1	1.9	2.3	2.1
Amount of concrete shielding + Air	$\approx 45\text{cm}$			

Level 2

	Trial 1	Trial 2	Trial 3	Average
Number of counts N	56	45	41	47
Count Rate (N/t)	19	15	14	16
Error in Count Rate σ_{CR}	2.5	2.2	2.1	2.3
Amount of concrete shielding + Air	$\approx 30\text{cm}$			

Level 3

	Trial 1	Trial 2	Trial 3	Average
Number of counts N	52	52	51	52
Count Rate (N/t)	17	17	17	17
Error in Count Rate σ_{CR}	2.4	2.4	2.4	2.4
Amount of concrete shielding + Air	$\approx 15\text{cm concrete}$			

Level 4

Top \rightarrow

	Trial 1	Trial 2	Trial 3	Average
Number of counts N	60	69	59	63
Count Rate (N/t)	20	23	19.7	20.9
Error in Count Rate σ_{CR}	2.58	2.77	2.56	2.64
Amount of concrete shielding + Air				

Control \perp AIR

	TRIAL 1	TRAIL 2	TRAIL 3	Ave.
Number of counts N	16	16	13	15
COUNT RATE (N/t)	5.3	5.3	4.3	5.0
ERROR	1.33	1.33	1.2	1.3