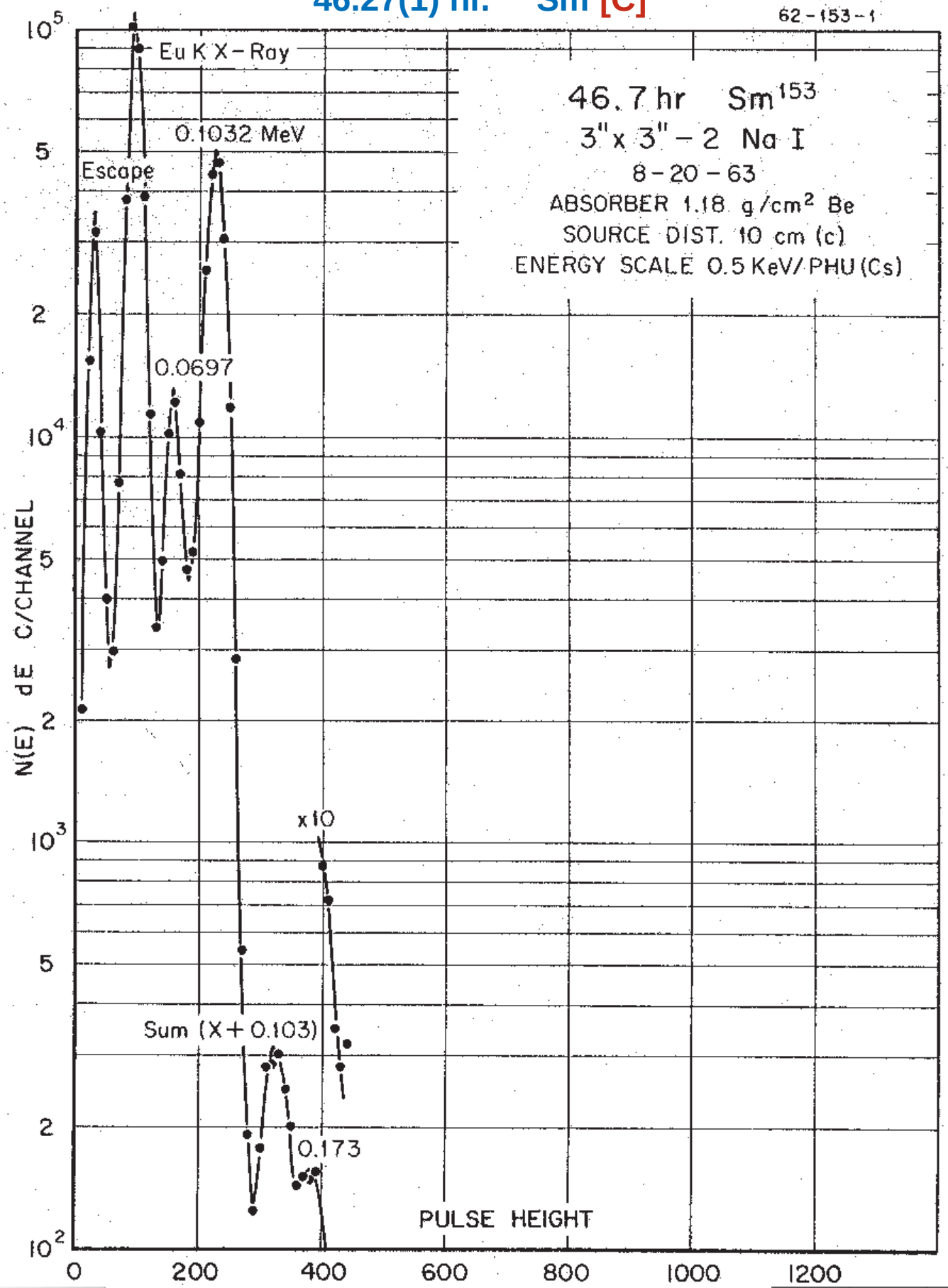
46.27(1) hr. ^{153}Sm [C]



Decay Data

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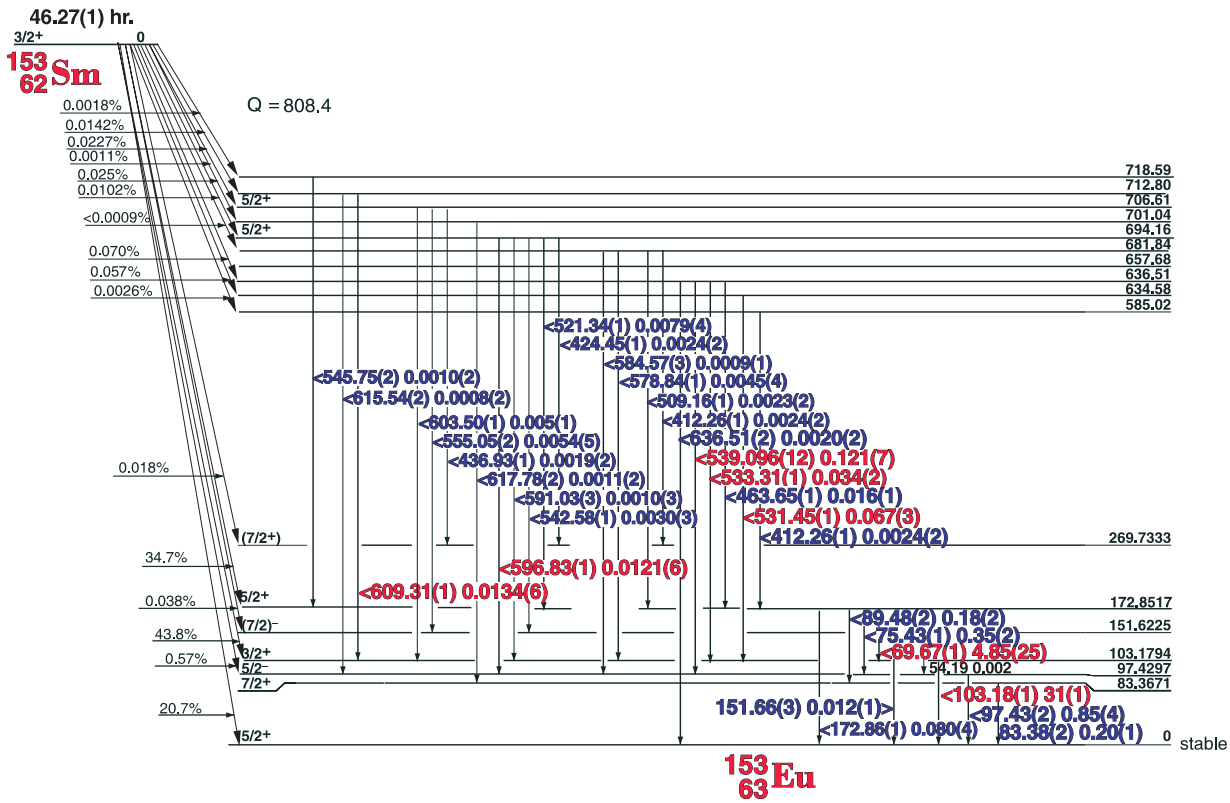
46.27(1) hr. ^{153}Sm [C]



GAMMA-RAY ENERGIES AND INTENSITIES

Nuclide ^{153}**Sm**
Detector 3" x 3" -2 NaI

Half Life 46.27(1) hr.
Method of Production: ^{152}Sm(n,γ)

E_γ (KeV)[C]	ΔE_γ	I_γ(rel)	I_γ(%)[E]	ΔI_γ	S
69.6730	**± 0.0001**	**16.2**	**4.85**	**± 0.25**	**1**
75.4221	± 0.0002	1.1	0.35	± 0.02	4
83.3672	± 0.0002	0.63	0.20	± 0.01	4
89.4859	± 0.0002	0.32	0.18	± 0.02	4
97.4310	± 0.0002	2.33	0.85	± 0.04	3
103.1801	**± 0.0002**	**100**	**31**	**± 1.0**	**1**
151.66	± 0.03	0.03	0.010	± 0.001	3
172.8531	**± 0.0002**	0.28	0.080	± 0.004	3
412.260	± 0.014	0.008	0.0024	± 0.0002	3
424.450	± 0.015	0.007	0.0020	± 0.0002	3
436.929	± 0.015	0.008	0.0020	± 0.0002	3
463.655	**± 0.012**	**0.053**	**0.016**	**± 0.001**	**2**
482.16	± 0.08	0.004	0.001	± 0.0005	4
509.164	± 0.015	0.010	0.0028	± 0.0002	3
521.345	± 0.012	0.028	0.008	± 0.0015	3
531.454	**± 0.012**	**0.238**	**0.067**	**± 0.003**	**1**
533.307	**± 0.012**	**0.119**	**0.034**	**± 0.002**	**1**
539.096	**± 0.012**	**0.086**	**0.025**	**± 0.002**	**1**
542.577	± 0.015	0.014	0.0030	± 0.0003	3
545.75	± 0.025	0.003	0.0010	± 0.0002	4
555.055	± 0.015	0.020	0.0054	± 0.(5)	2
578.839	± 0.015	0.018	0.0045	± 0.0004	3
583.4	± 0.1	0.003	0.0008	± 0.0001	4
584.573	± 0.03	0.004	0.0009	± 0.(1)	4

E_γ (KeV)[C]	ΔE_γ	I_γ(rel)	I_γ(%)[E]	ΔI_γ	S
587.557	± 0.025	0.002	0.0005	± 0.0001	4
591.03	± 0.03	0.005	0.001	± 0.0002	3
596.829	**± 0.015**	**0.045**	**0.0121**	**± 0.0006**	**1**
598.64	± 0.10	0.005	0.0001	± 0.00002	4
603.502	**± 0.015**	**0.019**	**0.005**	**± 0.001**	**2**
609.310	**± 0.015**	**0.051**	**0.134**	**± 0.006**	**1**
610.55	± 0.08	0.009	0.002	± 0.0002	4
615.54	± 0.06	0.003	0.0008	± 0.(1)	3
617.786	± 0.025	0.003	0.0011	± 0.0001	3
634.57	± 0.08	0.002	0.0005	± 0.0001	4
636.512	± 0.019	0.007	0.0020	± 0.0002	3
657.282	± 0.042	0.001	0.0002	± 0.0001	4
685.76	± 0.06	0.004	0.001	± 0.0006	3
713.754	± 0.07	0.001	0.0002	± 0.0001	4

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