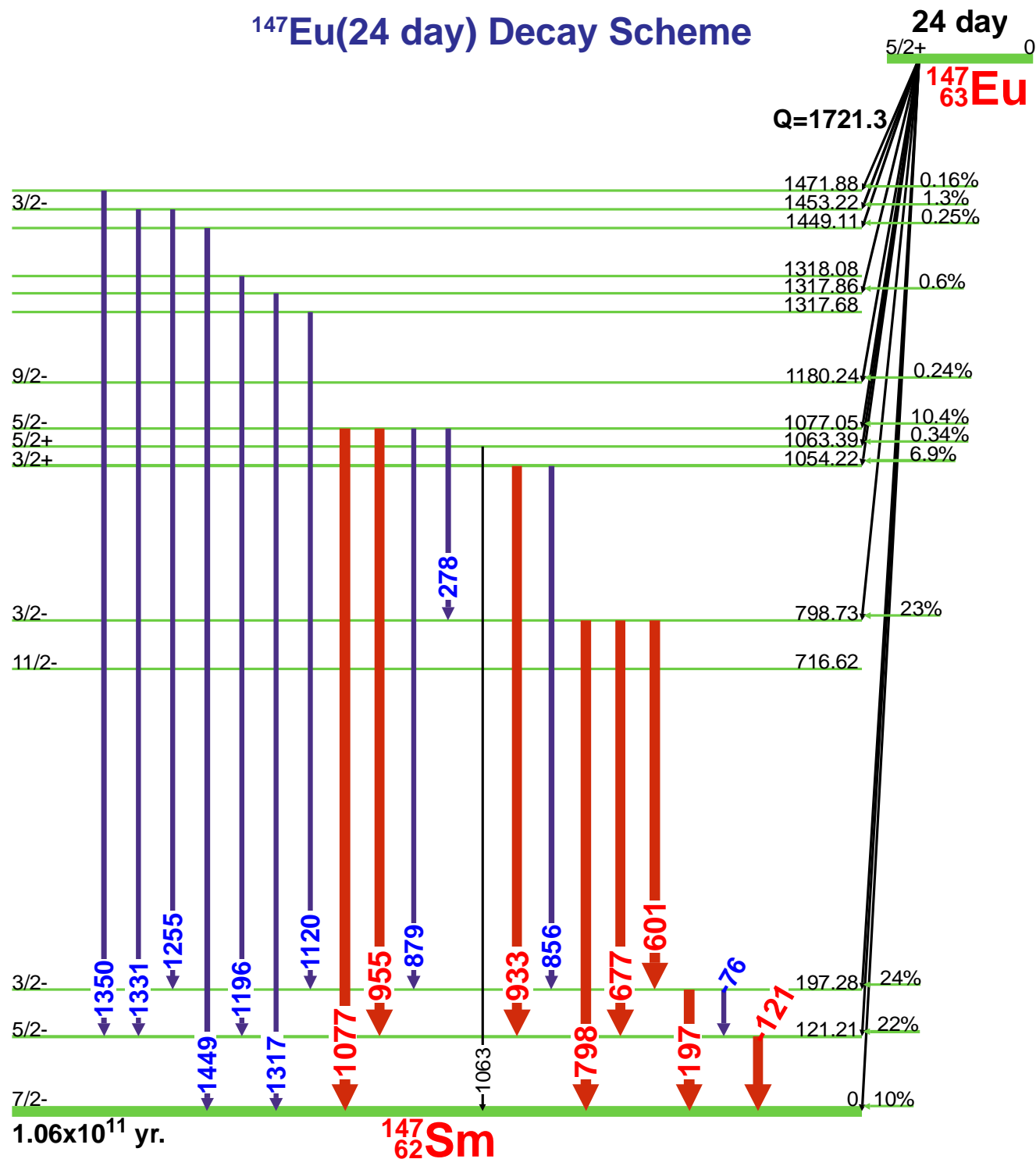


^{147}Eu (24 day) Decay Scheme

GAMMA-RAY ENERGIES AND INTENSITIES (page 1 of 2)

Nuclide: ^{147}Eu E_γ , σE_γ , I_γ , σI_γ - 1998 ENSDF Data

Half Life: 24.1(6) day

Detector: 2.5 cm² x 8 mm Ge (Li)

Method of Production: Sm(p,xn)

E_γ (keV)	σE_γ	I_γ (rel)	I_γ (%)	σI_γ	S
76.073	0.010	3.8	0.91	0.05	2
121.220	0.017	95.	22.9	1.3	1
165.558	0.028	0.10	0.0111	0.0007	4
197.299	0.012	100.	26.5	1.1	1
212.40	0.15		0.0014	0.0002	4
244.832	0.017		0.0239	0.0015	4
254.09	0.04		0.0095	0.0007	4
255.75	0.16		0.0020	0.0003	4
267.74	0.03		0.0117	0.0007	4
273.14	0.16		0.0021	0.0005	4
278.352	0.014	0.2	0.0517	0.0027	4
286.28	0.02		0.0133	0.0008	4
295.40	0.06		0.0032	0.0005	4
328.828	0.013	0.15	0.0368	0.0019	4
368.360	0.012		0.076	0.004	4
385.69	0.10		0.0024	0.0005	4
390.02	0.06		0.0040	0.0006	4
420.900	0.020		0.0337	0.0019	4
428.24	0.07		0.0034	0.0001	4
471.600	0.012		0.056	0.003	4
494.419	0.016		0.0398	0.0021	4
505.121	0.011		0.093	0.005	4
Ann. 511.006			0.71	0.10	4
518.96	0.03		0.0180	0.0013	4
537.22	0.16		0.0024	0.0008	4
601.450	0.004	26.4	5.9	0.3	1
654.55	0.11		0.0042	0.0006	4
677.516	0.007	42.8	9.8	0.5	1
688.15	0.04		0.0103	0.0009	4
716.45	0.05		0.0077	0.0006	4
732.33	0.05		0.0077	0.0006	4
749.895	0.017		0.2597	0.0134	4
798.729	0.005	21.7	4.85	0.26	1

E_γ (keV)	σE_γ	I_γ (rel)	I_γ (%)	σI_γ	S
809.380	0.016		0.0413	0.0023	4
829.0	0.7				4
846.242	0.011		0.0692	0.004	4
856.929	0.005	12.2	2.70	0.14	2
867.9	0.7				4
879.761	0.008	0.84	0.196	0.010	4
922.36	0.12		0.0027	0.0005	4
933.005	0.008	15.5	3.44	0.18	1
942.177	0.007	0.90	0.186	0.009	4
955.832	0.005	16.8	3.84	0.19	1
964.0	0.8				4
982.98	0.05		0.0090	0.0006	4
985.28	0.10		0.0042	0.0003	4
1022.46	0.04		0.0090	0.0006	4
1054.35	0.24		0.0021	0.0013	4
1059.041	0.012		0.073	0.004	4
1063.380	0.009	0.6	0.156	0.008	4
1077.043	0.006	27.5	6.1	0.3	1
1106.863	0.017		0.0313	0.0017	4
1120.387	0.009	0.80	0.183	0.009	3
1152.330	0.026		0.0085	0.0006	4
1158.2	0.9		0.008	0.005	4
1172.81	0.12		0.0040	0.0006	4
1180.231	0.010	0.64	0.183	0.009	3
1196.858	0.011	0.74	0.260	0.013	3
1251.841	0.024		0.077	0.004	4
1255.930	0.008	3.83	0.91	0.05	2
1274.592	0.014		0.0493	0.0026	4
1317.853	0.013	0.34	0.143	0.008	4
1327.98	0.05		0.0133	0.0019	4
1331.997	0.013	0.5	0.329	0.017	4
1350.198	0.014		0.138	0.008	4
1427.408	0.017		0.117	0.006	4

GAMMA-RAY ENERGIES AND INTENSITIES (page 2 of 2)

Nuclide: ¹⁴⁷Eu

E_γ, σE_γ, I_γ, σI_γ - 1998 ENSDF Data

Half Life: 24.1(6) day

Detector: 2.5 cm² x 8 mm Ge (Li)

Method of Production: Sm(p,xn)

E _γ (keV)	σE _γ	I _γ (rel)	I _γ (%)	σI _γ	S	E _γ (keV)	σE _γ	I _γ (rel)	I _γ (%)	σI _γ	S
1449.106	0.012	1.00	0.217	0.012	4	1520.58	0.13		0.0004	0.0001	4
1453.24	0.04		0.0254	0.0015	4	1542.0	1.2				4
1467.1	1.2				4	1548.51	0.16		0.0005	0.0001	4
1471.90	0.04		0.0029	0.0003	4	1601.00	0.05		0.0082	0.0004	4
1479.71	0.03		0.0042	0.0003	4	1641.98	0.07		0.0013	0.0001	4
1482.0	1.0		0.0040	0.0011	4	1655.6	1.3		0.0034	0.0011	4

