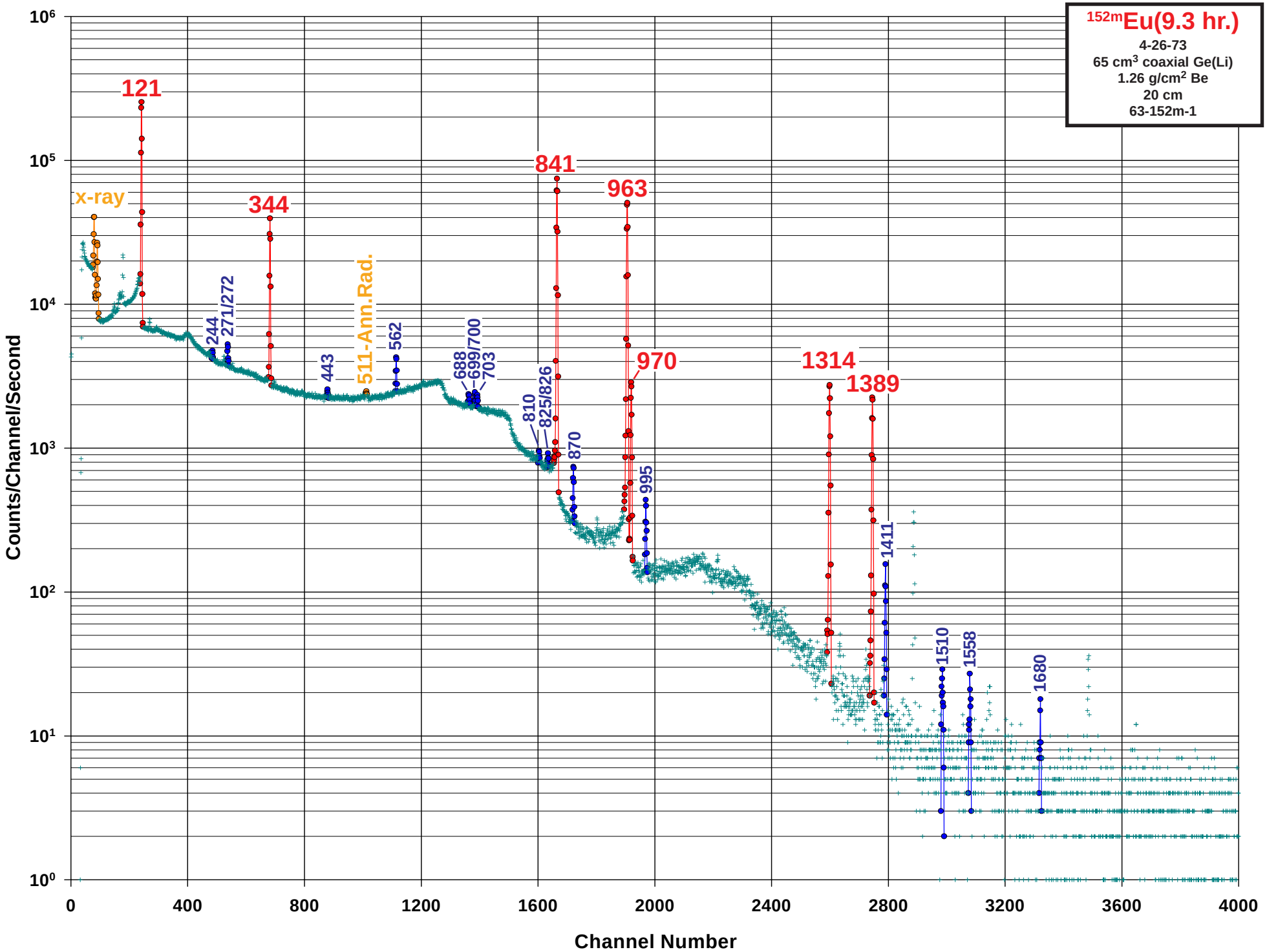
152mEu(9.3 hr.)
4-26-73
65 cm3 coaxial Ge(Li)
1.26 g/cm2 Be
20 cm
63-152m-1
121
x-ray
344
841
963
970
1314
1389
244
271/272
443
511-Ann.Rad.
562
688
699/700
703
810
825/826
870
995
1411
1510
1558
1680
Counts/Channel/Second
Channel Number
10^6
10^5
10^4
10^3
10^2
10^1
10^0
0
400
800
1200
1600
2000
2400
2800
3200
3600
4000

^{152m}Eu(9.3 hr.) Decay Scheme

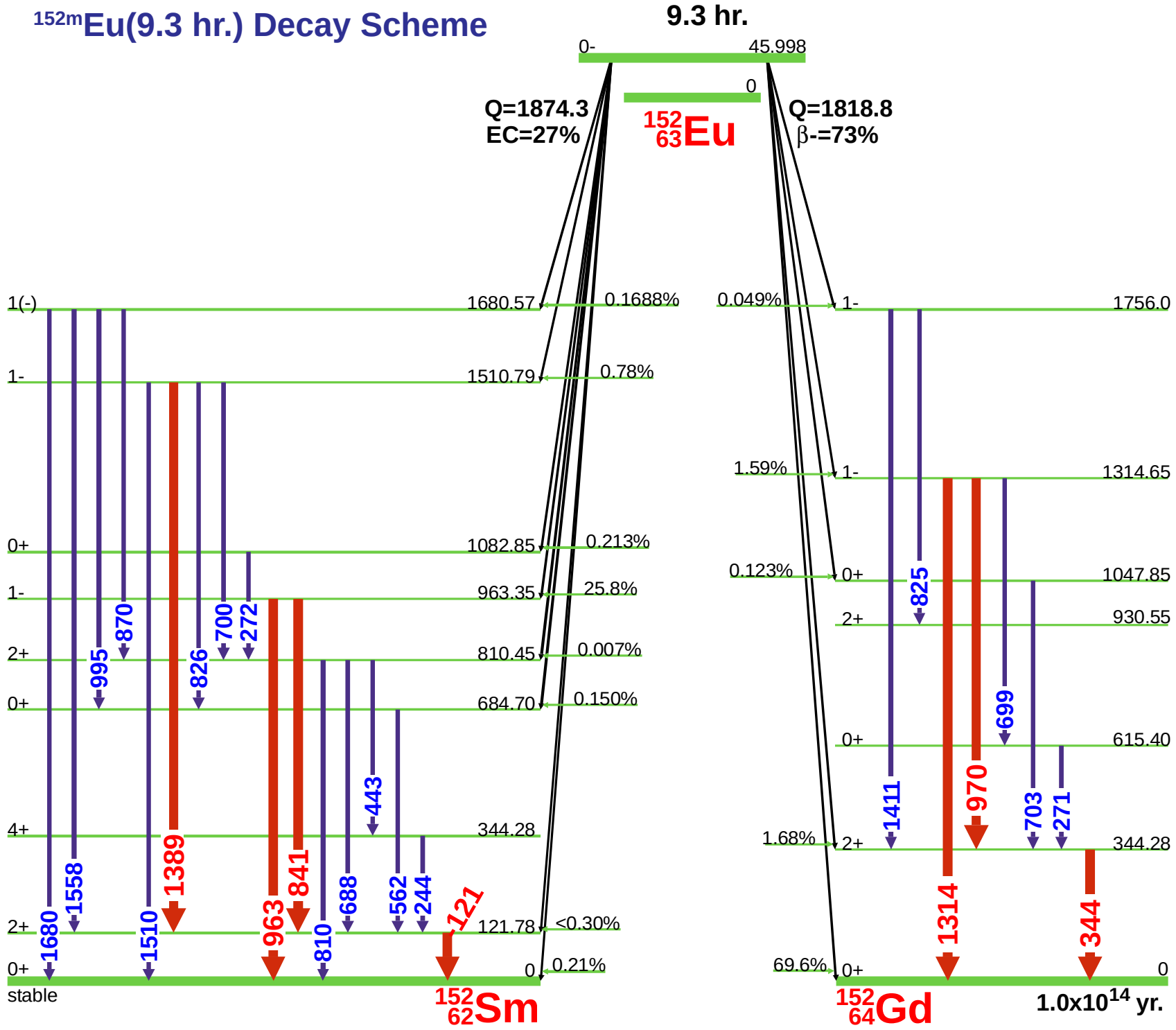

Table of Contents

GAMMA-RAY ENERGIES AND INTENSITIES

Nuclide: ^{152m}Eu

E_γ, σE_γ, I_γ, σI_γ - 1998 ENSDF Data

Half Life: 9.3116(1) hr.

Detector: 65 cm^3 coaxial Ge (Li)

Method of Production: ^{151}Eu(n,γ)

	E_γ (keV)	σE_γ	I_γ (rel)	I_γ (%)	σI_γ	S
	117.3	0.3		0.0168	0.0026	4
	121.777	0.005	50.66	25.9	0.9	1
	152.9	0.3		0.0053	0.0016	4
	160.0	0.5		0.0026	0.0016	4
	191.6	0.3		0.0007	0.0004	4
	218.1	0.3		0.0002	0.0001	4
	220.8	0.3		0.0005	0.0005	4
	244.700	0.010	0.37	0.0919	0.0027	4
	256.99	0.22		0.0037	0.0016	4
	266.91	0.22		0.0011	0.0006	4
D	271.06	0.01	0.669	0.074	0.011	4
	272.41	0.04		0.037	0.004	
	278.7	0.3				4
	340.1	0.3		0.018	0.007	4
	344.31	0.03	17.36	2.4	0.4	1
	387.8	0.3		0.0026	0.0016	4
	398.00	0.15				4
	412.0	0.3		0.0007	0.0004	4
	443.96	0.04	0.21	0.091	0.004	4
Ann.	511.006			0.014		4
	547.35	0.08		0.034	0.004	4
	562.930	0.020	1.55	0.814	0.019	3
	586.265	0.003		0.0126	0.0019	4
	605.0	0.5		0.015	0.006	4
	632.8	0.3		0.0011	0.0007	4
	646.9	0.3		0.0007	0.0004	4
	684.85	0.20				4
	688.69	0.05	0.62	0.240	0.009	4
D	699.27	0.04	0.84	0.070	0.011	4
	700.3	0.3		0.039	0.007	
D	703.54	0.05	0.73	0.066	0.010	4
	703.7	0.3		0.0026	0.0016	
	764.9			0.0004	0.0003	4

	E_γ (keV)	σE_γ	I_γ (rel)	I_γ (%)	σI_γ	S
	778.904			0.0018	0.0009	4
	796.1	0.3		0.013	0.005	4
	810.47	0.08	0.34	0.092	0.005	4
D	825.5	0.3	0.23	0.0007	0.0004	4
	826.01	0.07		0.0026	0.0016	
	841.594	0.008	100.	52.5	1.4	1
	845.4	0.5		0.0089	0.0019	4
	870.13	0.05	0.80	0.326	0.009	3
	915.7	0.4		0.037	0.005	4
	961.06	0.22		0.74	0.04	4
	963.390	0.012	82.4	43.2	0.9	1
	970.350	0.009	4.60	0.59	0.09	1
	995.870	0.010	0.51	0.252	0.007	3
	1039.2	0.5		0.030	0.006	4
	1082.8	0.5				4
	1109.174			0.00028	0.00014	4
	1116.0	1.0		0.0010	0.0006	4
	1137.5	0.3		0.05	0.03	4
	1168.16	0.19		0.022	0.005	4
	1207.3	0.6		0.010	0.004	4
	1290.0	0.5		0.0033	0.0003	4
	1314.67	0.01	6.67	0.93	0.14	1
	1389.000	0.010	5.74	2.77	0.10	1
	1406.5	0.5		0.0026	0.0016	4
	1411.70	0.03	0.35	0.044	0.007	2
	1420.0	1.0		0.0021	0.0016	4
	1460.64	0.13		0.0016	0.0004	4
	1510.83	0.05	0.075	0.0236	0.0016	3
	1558.73	0.03	0.060	0.0289	0.0017	3
	1680.52	0.05	0.04	0.0194	0.0011	3
	1755.94	0.06		0.0026	0.0002	4