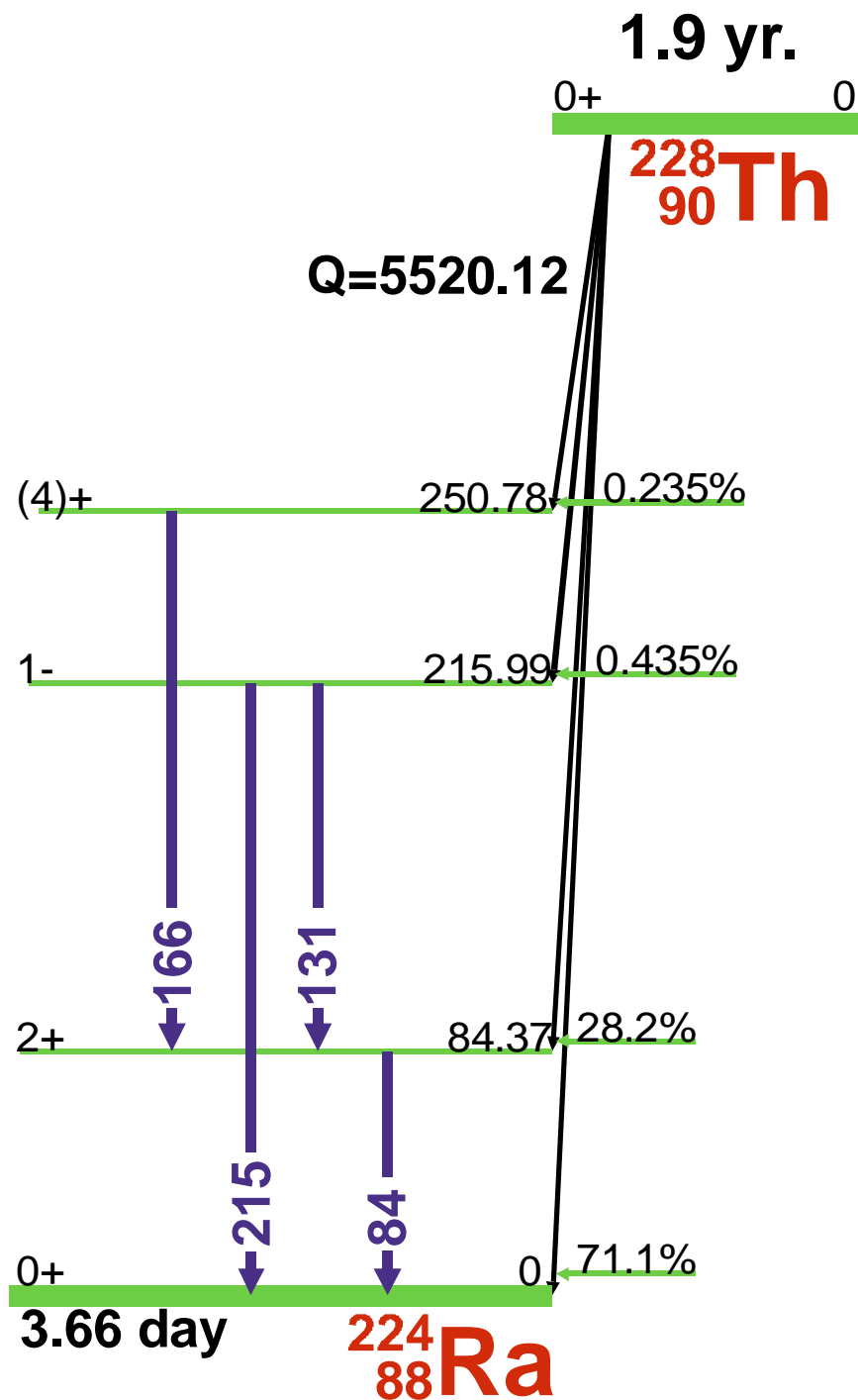
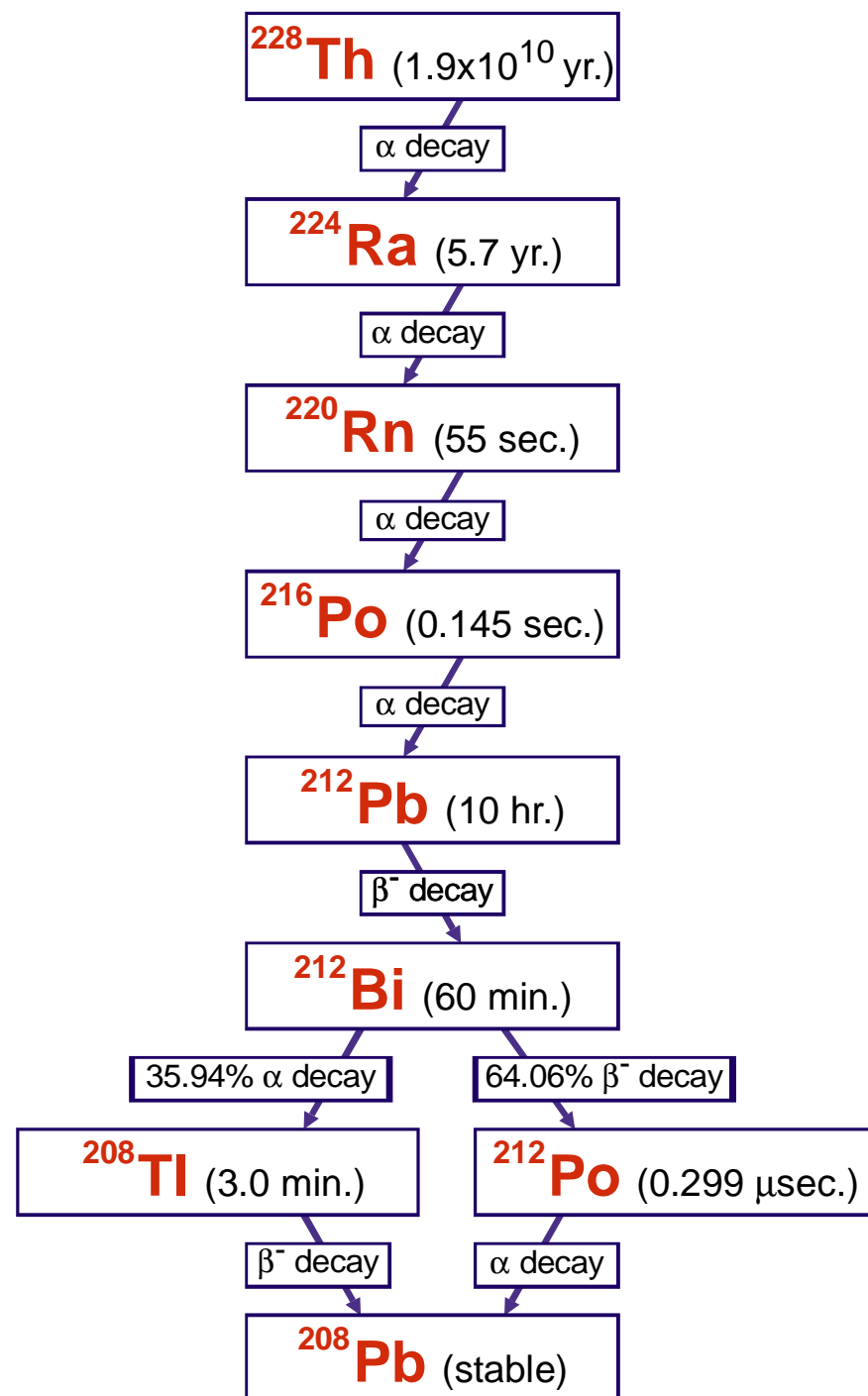


^{228}Th (1.9 yr.) Decay Scheme **^{228}Th Decay Chain**

GAMMA-RAY ENERGIES AND INTENSITIES

Nuclide: ²²⁸Th E_γ , σE_γ , I_γ , σI_γ - 1998 ENSDF Data

Half Life: 1.9116(16) yr.

Detector: 55 cm³ coaxial Ge (Li)Method of Production: ²³²Th decay

	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
²²⁸ Th	74.40	0.10		0.0004	0.0001	4	²⁰⁸ Tl	583.191	0.002	83.2	84.5	0.7	1
²²⁸ Th	84.376	0.003		1.220	0.020	4	²²⁸ Th	700.5	0.5				4
²¹² Pb	115.183	0.005		0.592	0.007	4	²⁰⁸ Tl	722.04	0.12	0.2	0.201	0.014	4
²²⁸ Th	131.613	0.004		0.1305	0.0018	4	²¹² Bi	727.330	0.009	18.4	10.27	0.08	1
²²⁸ Th	142.0	0.5				4	²²⁸ Th	742.2	0.5				4
²²⁸ Th	166.410	0.004		0.1036	0.0015	4	²⁰⁸ Tl	763.13	0.08	1.68	1.81	0.05	2
²¹² Pb	176.680	0.050	0.15	0.052	0.006	4	²¹² Bi	785.37	0.08	2.95	1.72	0.02	2
²²⁸ Th	182.20	0.20				4	²²⁸ Th	832.00	0.20				4
²²⁸ Th	205.93	0.05		0.0196	0.0006	4	²⁰⁸ Tl	860.564	0.005	12.5	12.42	0.10	1
²²⁸ Th	215.983	0.005	0.78	0.254	0.003	4	²¹² Bi	893.408	0.005	0.94	0.59	0.03	3
²²⁸ Th	228.50	0.20				4	²²⁸ Th	908.10	0.10				4
²¹² Pb	238.632	0.002	120	43.3	0.3	1	²⁰⁸ Tl	927.60	0.20	0.15	0.131	0.009	4
²²⁴ Ra	240.986	0.006	10	4.10	0.05	3	²¹² Bi	952.120	0.011	0.65	0.26	0.05	4
²⁰⁸ Tl	252.61	0.10	0.80	0.69	0.04	4	²⁰⁸ Tl	982.70	0.20	0.2	0.203	0.011	4
²⁰⁸ Tl	277.358	0.010	6.34	6.31	0.09	2	²²⁸ Th	992.9	1.0				4
²¹² Bi	288.20	0.04	0.92	0.938	0.009	4	²¹² Bi	1078.62	0.10	1.51	0.88	0.03	3
²¹² Pb	300.087	0.010	8.76	3.28	0.03	2	²⁰⁸ Tl	1093.90	0.20	0.41	0.40	0.03	3
²¹² Bi	328.03	0.04	0.36	0.349	0.017	4	²¹² Bi	1512.7	0.3		0.45	0.06	4
²¹² Bi	452.98	0.05	1.06	1.010	0.009	3	²¹² Bi	1620.50	0.10	4.09	2.32	0.05	3
²⁰⁸ Tl	510.77	0.10	22.0	22.6	0.3	1	²¹² Bi	1806.0	0.5		0.14	0.03	4
²²⁰ Rn	549.73	0.05	0.33	0.114	0.017	4	²⁰⁸ Tl	2614.533	0.013	100	99.16		1

NOTE: ²⁰⁸Th - Multiply I_γ (%) values by 0.3594 to account for branching from ²¹²Bi