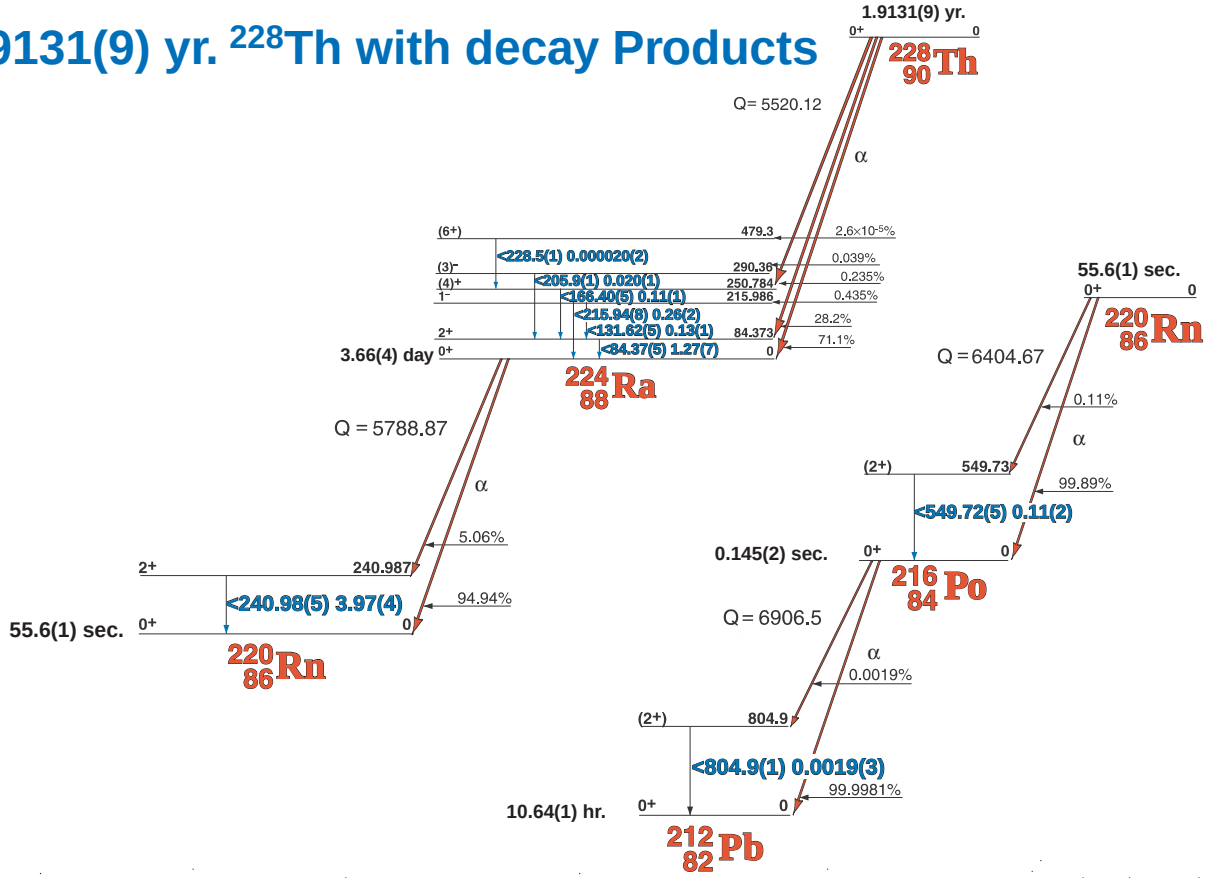
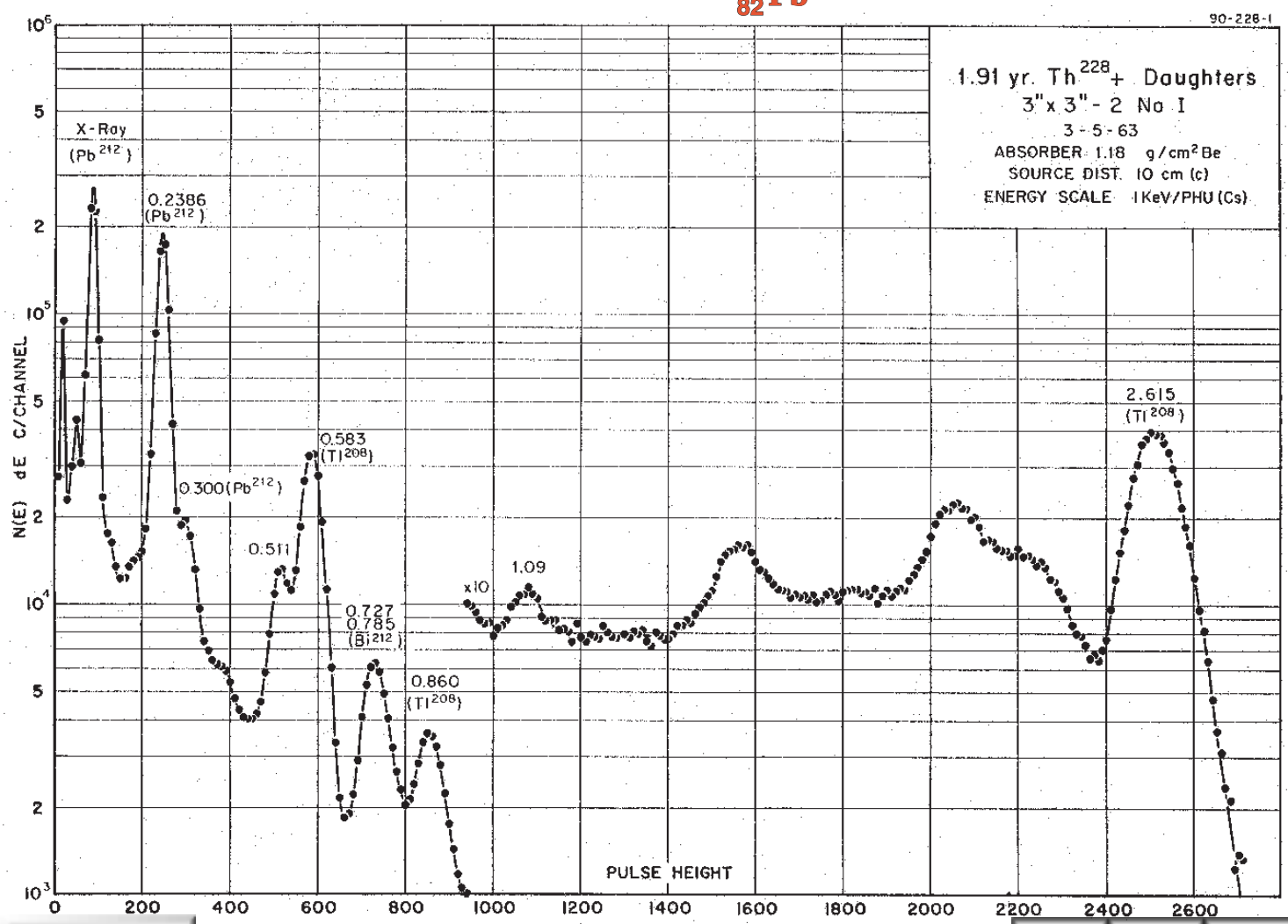
1.9131(9) yr. ^{228}Th with decay Products





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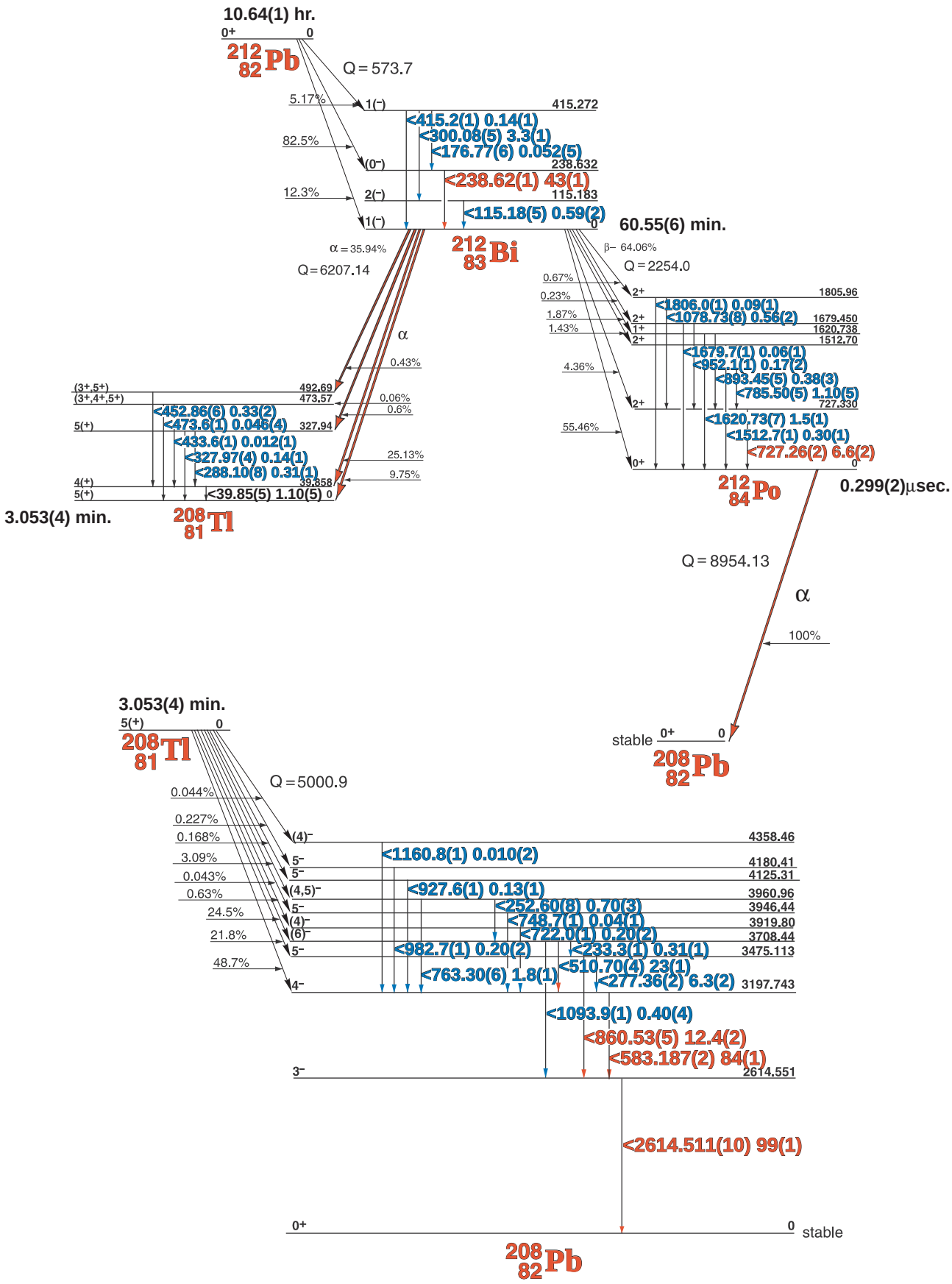
1.9131(9) yr. ^{228}Th with decay Products



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1.9131(9) yr. ^{228}Th with decay Products

GAMMA-RAY ENERGIES AND INTENSITIES

Nuclide ^{228}**Th**(in equil. with daughters) Half Life 1.9131(9) yr.
Detector 3" x 3" -2 NaI Method of Production: natural decay chain

	E_γ (KeV)[S]	ΔE_γ	I_γ(rel)	I_γ(%)[E]	ΔI_γ	S
	K x-rays					**1**
	84. 37	**± 0.05**		**1.27**	**± 0.07**	**3**
^{212}Pb	115.18	± 0.05	1.59	0.59	± 0.02	3
	131.62	± 0.05	0.32	0.13	± 0.01	4
	166.40	± 0.05	0.23	0.11	± 0.01	4
^{212}Pb	176.80	± 0.05	0.15	0.052	± 0.005	4
	215.94	± 0.08	0.78	0.26	± 0.02	4
^{212}Pb	**238.624**	**± 0.009**	**120**	**43**	**± 1.0**	**1**
^{224}Ra	240.98	± 0.05	10	3.97	± 0.04	3
^{208}Tl	252.60	± 0.08	0.80	0.70	± 0.03	4
^{208}Tl	**277.36**	**± 0.02**	**6.34**	**6.3**	**± 0.2**	**2**
^{212}Bi	288.10	± 0.08	0.92	0.31	± 0.01	4
^{212}Pb	**300.08**	**± 0.05**	**8.76**	**3.3**	**± 0.06**	**2**
^{212}Bi	327.97	± 0.04	0.36	0.14	± 0.01	4
^{212}Bi	452.86	± 0.06	1.06	0.33	± 0.02	3
^{208}Tl	**510.70**	**± 0.04**	**22.0**	**23**	**± 1.0**	**1**
^{220}Rn	549.72	± 0.05	0.33	0.11	± 0.02	4
^{208}Tl	**583.174**	**± 0.013**	**83.2**	**84**	**± 1.0**	**1**
^{208}Tl	722.0	±0.1	0.20	0.20	± 0.02	4
^{212}Bi	**727.264**	**± 0.025**	**18.4**	**6.6**	**± 0.2**	**1**
^{208}T1	**763.30**	**± 0.06**	**1.68**	**1.8**	**± 0.1**	**2**
^{212} Bi	**785.50**	**± 0.05**	**2.95**	**1.10**	**± 0.05**	**2**
^{216} Po	804.9	± 0.1		0.0019	± 0.(2)	4
^{208}Tl	**860.53**	**± 0.05**	**12.5**	**12.4**	**± 0.2**	**1**
^{212} Bi	893.45	± 0.05	0.94	0.38	± 0.03	3
^{208}Tl	927.6	± 0.1	0.15	0.13	± 0.01	4
^{208}Tl	982.7	± 0.1	0.20	0.20	± 0.02	4
^{212} Bi	952.0	± 0.15	0.65	0.17	± 0.02	4
^{212}Bi	1078.73	± 0.08	1.51	0.56	± 0.02	3
^{208}Tl	1093.9	± 0.1	0.41	0.40	± 0.04	3
^{212}Bi	1512.7	± 0.1		0.30	± 0.01	4

	E_γ (KeV)[S]	ΔE_γ	I_γ(rel)	I_γ(%)[E]	ΔI_γ	S
DE	1592.60	± 0.06				1
^{212}Bi	1620.73	± 0.07	4.09	1.5	± 0.1	3
^{212}Bi	1679.7	± 0.1		0.06	± 0.01	4
^{212}Bi	1806.0	± 0.1		0.09	± 0.01	4
SE	2103.48	± 0.04				2
^{208}Tl	**2614.476**	**± 0.055**	**100**	**99**	**± 1.0**	**1**

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