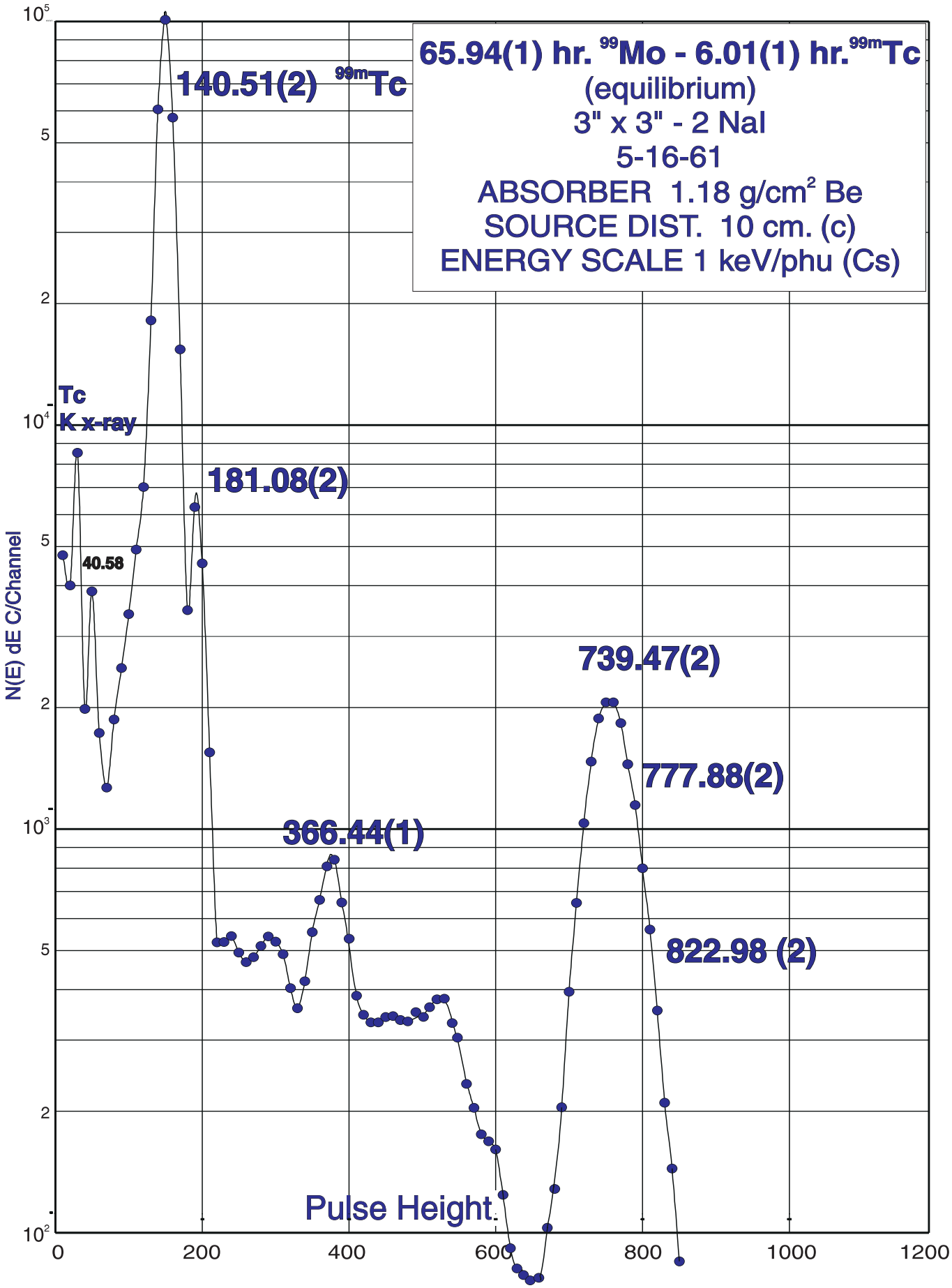
65.94(1) hr. 99Mo - 6.01(1) hr. 99mTc
(equilibrium)
3" x 3" - 2 NaI
5-16-61
ABSORBER 1.18 g/cm2 Be
SOURCE DIST. 10 cm. (c)
ENERGY SCALE 1 keV/phu (Cs)
140.51(2) 99mTc
Tc
K x-ray
40.58
181.08(2)
739.47(2)
777.88(2)
366.44(1)
822.98 (2)
Pulse Height
N(E) dE C/Channel
0
200
400
600
800
1000
1200

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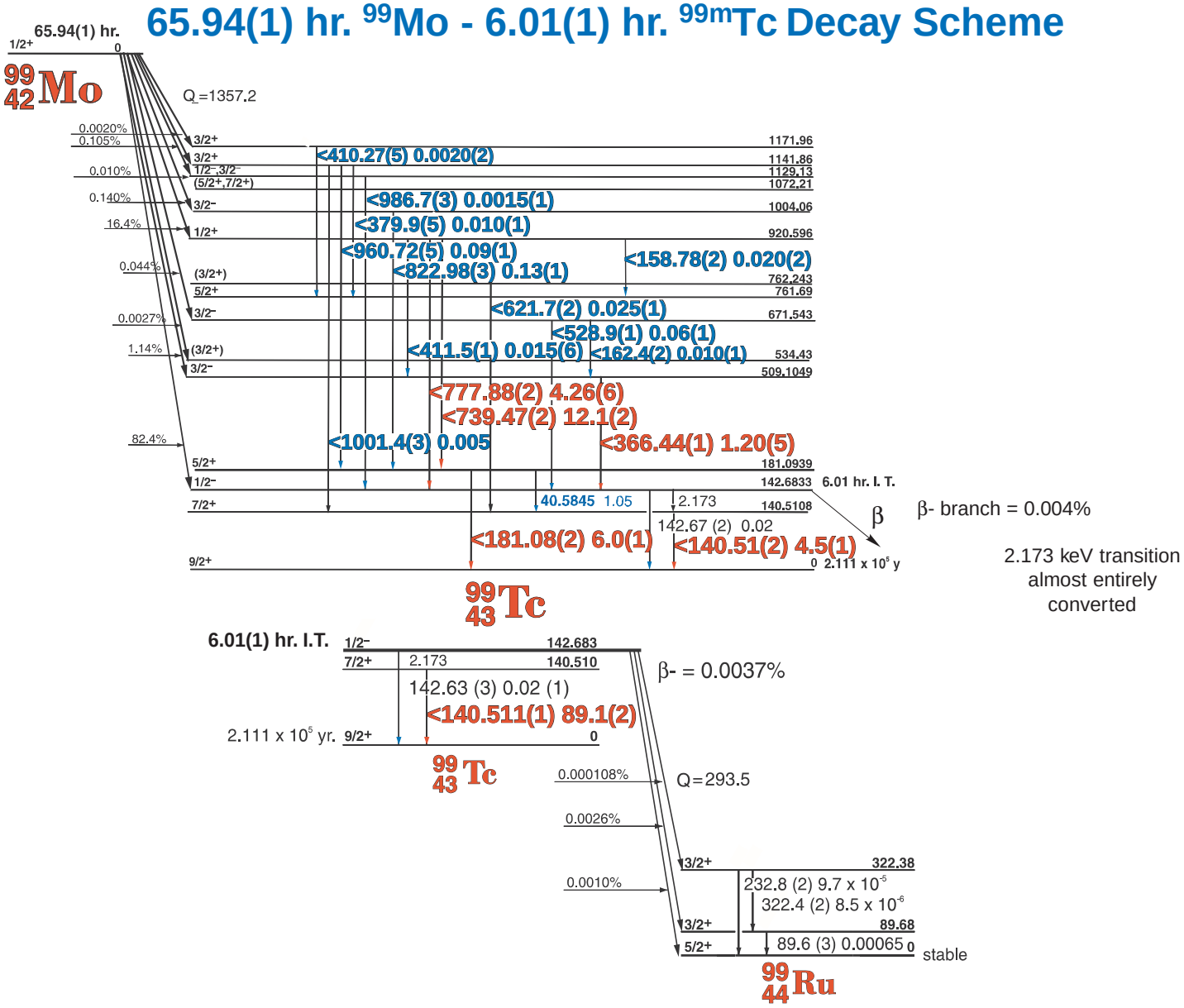
65.94(1) hr. ^{99}Mo - 6.01(1) hr. ^{99m}Tc Decay Scheme



GAMMA-RAY ENERGIES AND INTENSITIES

42-99(43-99m)-1

Nuclide ^{99}Mo - ^{99m}Tc Half Life 65.94(1) hr. (Tc 6.01(1) hr.)

Detector 3" x 3" -2 NaI Method of Production: $Mo^{98}(n,\gamma)$

	E_γ(KeV)[S]	ΔE_γ	I_γ(rel)	I_γ(%)[E]	ΔI_γ	S
	40.576	± 0.02	0.63	0.95	± 0.09	4
^{99m}Tc	140.509	± 0.02	100	4.5 (82)	± 0.05	1
	181.085	± 0.016	6.8	6.0	± 0.1	1
	366.44	± 0.015	1.37	1.20	± 0.05	1
	379.9	± 0.5	0.01	0.01	± 0.005	4
	411.5	± 0.1	0.05	0.015	± 0.005	4
	528.9	± 0.1	0.05	0.06	± 0.01	4
	621.9	± 0.15	0.026	0.04	± 0.01	4
	739.469	± 0.025	13.7	12.1	± 0.9	1
	777.878	± 0.025	4.9	4.26	± 0.3	1
	822.98	± 0.03	0.15	0.13	± 0.01	2
	859.2	± 0.5	0.002	0.007	± 0.003	4
	960.7	± 0.02	0.11	0.09	± 0.01	2
	986.7	± 0.3	0.002	0.0015	± 0.0005	4
	1001.4	± 0.3	0.004	0.0055	± 0.0005	4

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