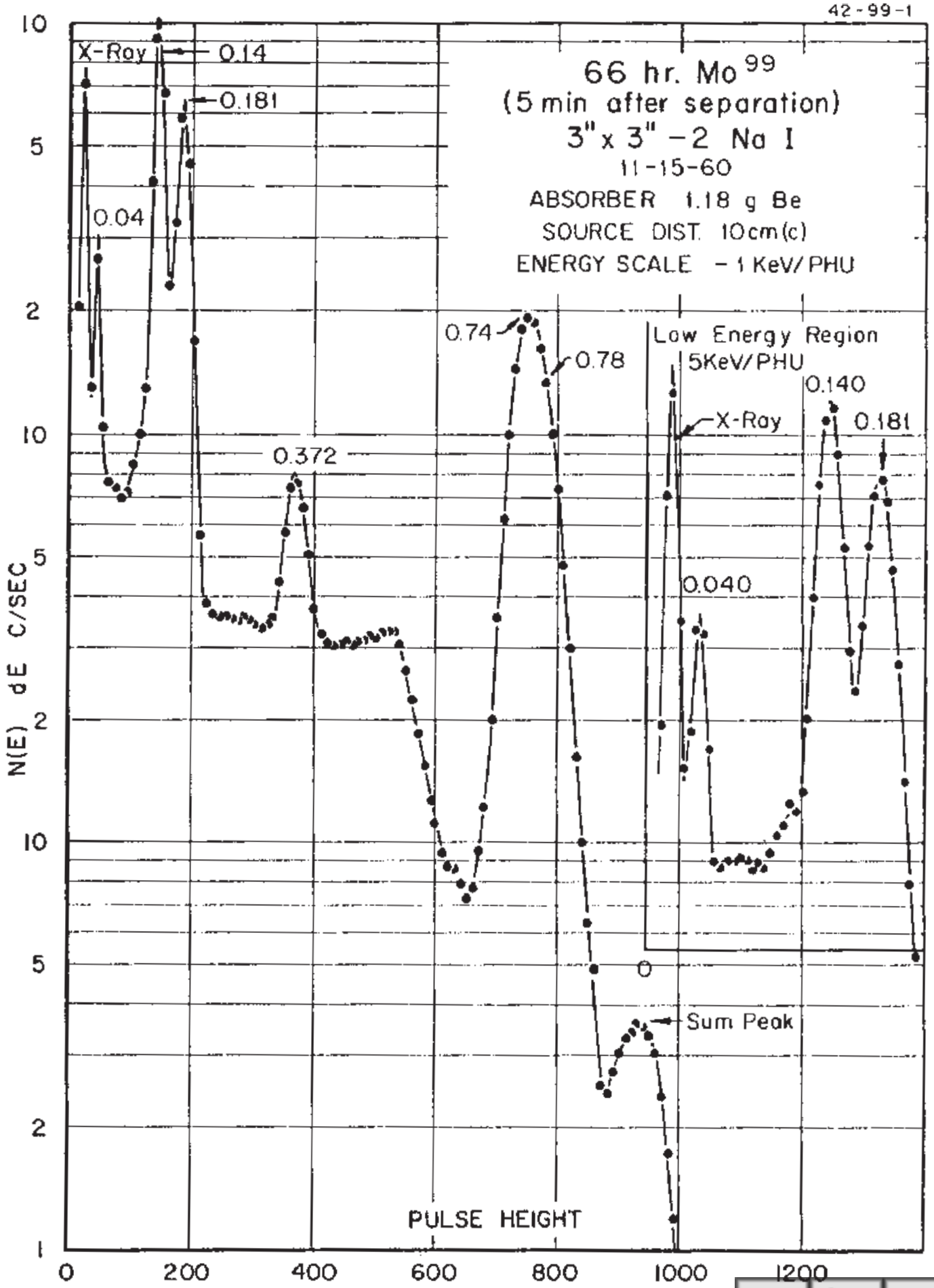
42-99-1
66 hr. Mo 99
(5 min after separation)
3" x 3" -2 Na I
11-15-60
ABSORBER 1.18 g Be
SOURCE DIST. 10cm(c)
ENERGY SCALE - 1 KeV/PHU
X-Ray
0.14
0.181
0.04
0.372
0.74
0.78
Low Energy Region
5KeV/PHU
X-Ray
0.040
0.140
0.181
Sum Peak
N(E) dE C/SEC
PULSE HEIGHT
0
200
400
600
800
1000
1200
1
2
5
10

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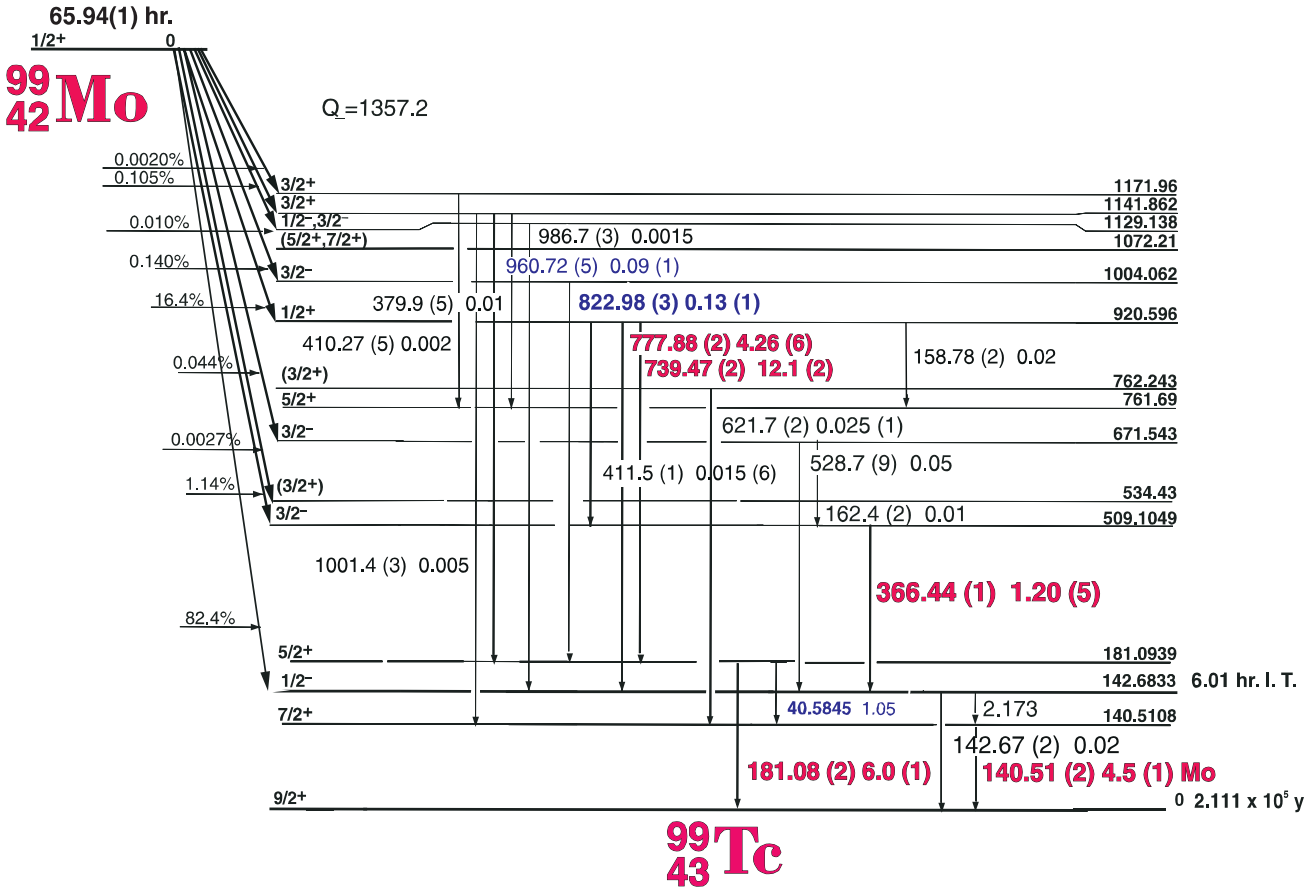
65.94(1) hr. ^{99}Mo Decay Scheme



42-99-1

GAMMA-RAY ENERGIES AND INTENSITIES

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

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

	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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