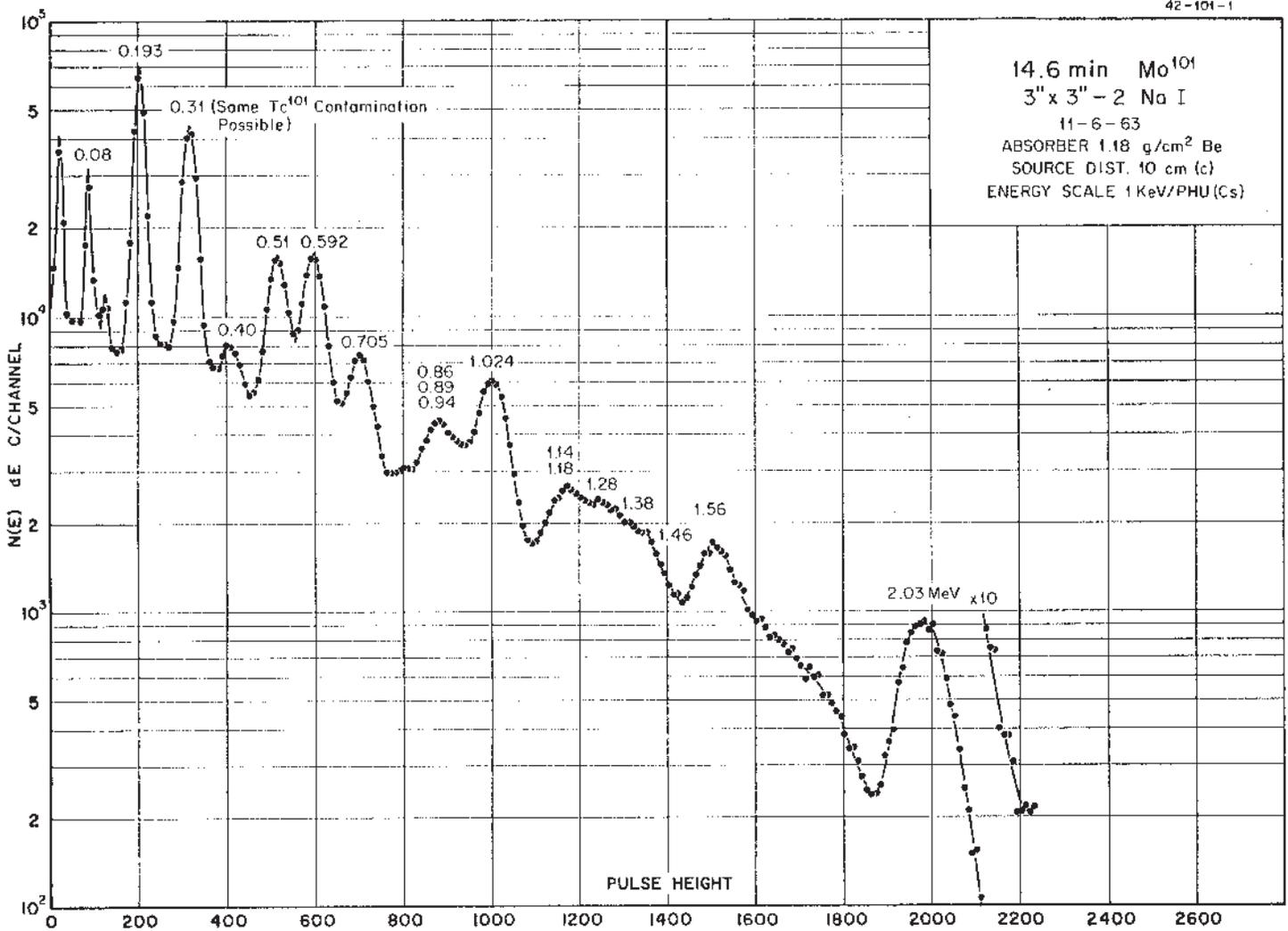
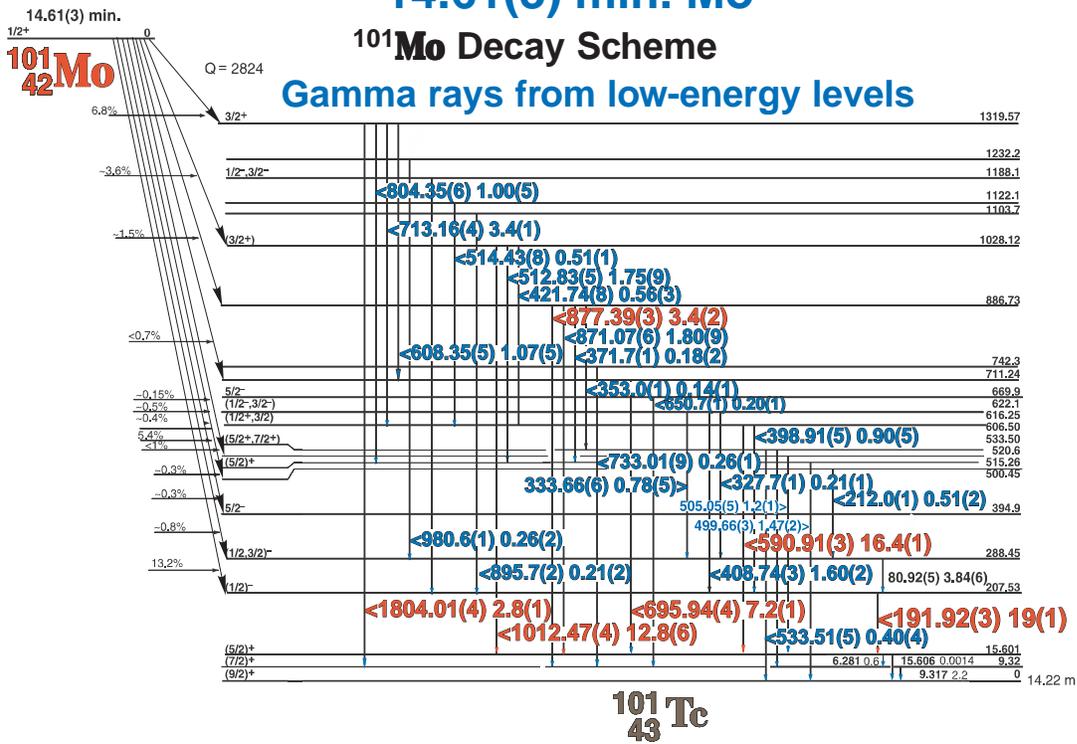


14.61(3) min. Mo¹⁰¹

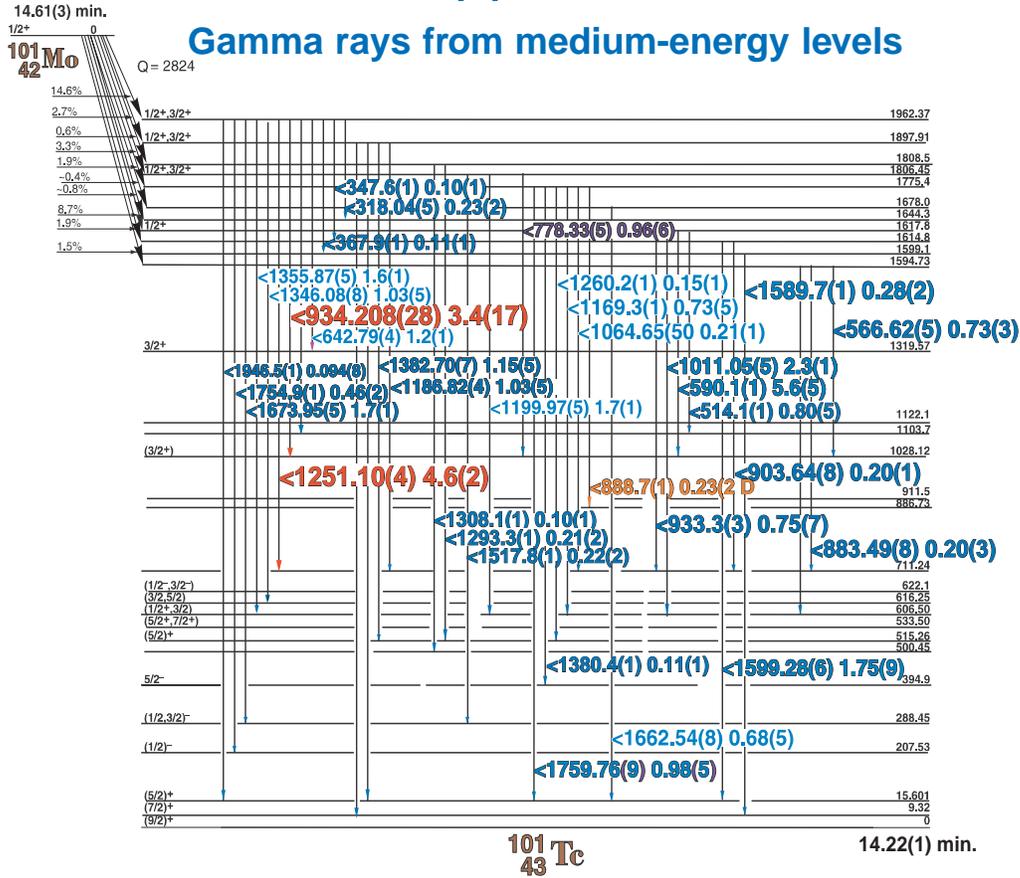
¹⁰¹Mo Decay Scheme

Gamma rays from low-energy levels

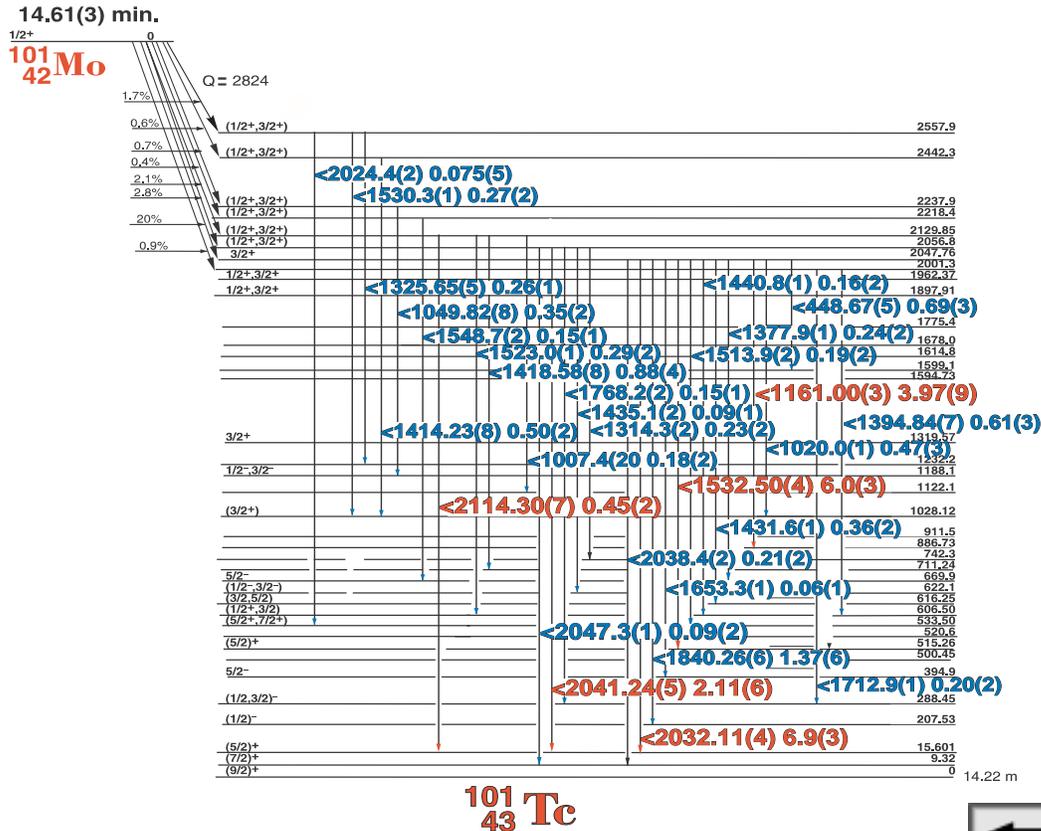


14.61(3) min. Mo¹⁰¹

Gamma rays from medium-energy levels



Gamma rays from high-energy levels



14.61(3) min. Mo¹⁰¹

GAMMA-RAY ENERGIES AND INTENSITIES

Nuclide ⁹¹Mo Half Life 14.61(3) min.
 Detector 3" X 3" NaI-2 Method of Production: Mo¹⁰⁰(n,γ)

	E _γ (KeV)[S]	ΔE _γ	I _γ (rel)	I _γ (%)[E]	ΔI _γ	S		E _γ (KeV)[S]	ΔE _γ	I _γ (rel)	I _γ (%)[E]	ΔI _γ	S
¹⁰¹ Tc	127.23	± 0.05	9.01		+ 0.5	3		883.49	± 0.08	3.14	0.70	± 0.03	3
	191.923	± 0.028	81.9	19	± 1.0	1		888.00	± 0.15	2.40	0.46	± 0.02	4
	195.95	+ 0.06	11.52		+ 0.6	3		895.73	± 0.25	1.38	0.21	± 0.01	4
	212.00	± 0.04	2.20	0.51	± 0.05	4		903.640	± 0.12	1.32	0.20	± 0.01	4
¹⁰¹ Tc	306.819	± 0.025	353		± 10.0	1		934.208 ± 0.028		21.84	3.4	± 0.17	1
	311.33	± 0.1	0.77		± 0.07	4		944.14	± 0.15	0.67	0.15	± 0.01	4
	318.04	± 0.05	1.03	0.20	± 0.10	4		980.58	± 0.10	1.73	0.27	± 0.02	4
	327.67	± 0.1	1.31	0.22	± 0.01	4		988.25	± 0.2	1.09		± 0.15	4
	333.66	± 0.06	3.36	0.78	+ 0.04	3		1012.475 ± 0.038		76.63	12.8	± 0.7	1
	347.61	± 0.1	0.77		± 0.10	4		1019.27	± 0.05	4.98	0.67	± 0.05	3
	353.0	± 0.1	0.84	0.13	± 0.01	4		1049.82	± 0.08	1.90	0.35	± 0.02	3
	370.12	± 0.15	1.0	0.20	± 0.01	4		1064.65	± 0.12	1.60	0.25	± 0.02	4
	371.87	± 0.15	0.8	0.13	± 0.01	4		1161.005 ± 0.035		22.0	3.97	± 0.2	1
	398.91	± 0.05	4.13		± 0.3	3		1169.39	± 0.12	4.24	0.63	± 0.05	4
	408.736	± 0.03	7.45	1.60	+ 0.50	3		1186.826	± 0.045	5.09	0.93	± 0.1	3
	421.74	± 0.08	3.01	0.56	± 0.03	3		1199.966	± 0.05	9.50	1.75	± 0.08	2
	432.61	± 0.15	0.46		± 0.1	4		1251.10 ± 0.040		25.77	4.6	± 0.2	1
	448.67	± 0.05	3.46	0.69	± 0.03	3		1260.17	± 0.15	0.83		± 0	4
	468.99	± 0.15	0.76		± 0.15	4		1304.01 ± 0.04		15.1	2.78	± 0.14	2
	482.52	± 0.12	0.73		± 0.15	4		1308.13	+ 0.20	0.49			4
	499.66	± 0.03	7.21	1.47	± 0.08	3		1325.65	+ 0.15	2.05	0.26	± 0.01	3
	505.938	± 0.030	57.1	11.8	± 0.6	1		1336.33	± 0.15	0.77	0.36	± 0.02	4
	512.83	± 0.05	7.28	1.75	± 0.09	3		1339.43	± 0.10	1.10			4
	515.43	± 0.08	3.99	0.51	± 0.03	3		1346.08	+ 0.08	5.69	0.95	± 0.1	3
¹⁰¹ Tc	531.52	± 0.08	4.63		+ 0.35	3		1355.87 ± 0.05		9.93	1.67	± 0.08	2
	533.62	± 0.1	2.1	0.40	± 0.04	3		1378.08	+ 0.15	1.22	0.24	± 0.02	4
¹⁰¹ Tc	545.050	± 0.035	24.5		± 1.5	1		1382.70	+ 0.07	6.47	1.15	± 0.08	2
	566.625	± 0.05	4.06	0.73	± 0.03	3		1394.84	± 0.07	3.64	0.61	± 0.04	3
	590.908	± 0.030	100	16.4	± 0.8	1		1414.23	± 0.08	3.00	0.50	± 0.04	3
	608.35	± 0.05	5.09	1.07	± 0.05	3		1418.58	± 0.08	4.70	0.88	± 0.07	3
¹⁰¹ Tc	626.96	± 0.1	1.2		± 0.2	4		1429.16	± 0.15	0.95			4
	642.79	± 0.04	6.65	1.24	± 0.06	3		1431.59	+ 0.12	1.8	0.32	± 0.03	3
	660.66	± 0.1	1.10	0.20	± 0.02	4		1440.82	± 0.18	1.09			4
	695.938	0.040	34.7	7.2	± 0.3	1		1532.501 ± 0.038		32.91	6.0	± 0.5	1
	702.1	0.08	1.66	0.38	± 0.02	4		1589.73	± 0.12	1.57	0.28	± 0.01	3
	713.159	0.045	16.82		± 0.15	2		1599.28	± 0.055	9.47	1.7	± 0.2	2
¹⁰¹ Tc	715.70	0.15	2.70		± 0.25	3		1662.538	± 0.08	3.78	0.68	± 0.04	3
¹⁰¹ Tc	720.20	0.2	1.10		± 0.1	4		1673.948 ± 0.05		8.83	1.6	± 0.02	2
	728.28	± 0.2	0.53		± 0.08	4		1713.06	± 0.15	1.0	0.2	± 0.02	4
	733.01	± 0.09	1.66	0.26	± 0.01	4		1754.94	± 0.10	2.0	0.40	± 0.04	3
	774.21	± 0.07	2.19		± 0.25	4		1759.76	+ 0.09	5.54	0.98	± 0.06	3
	778.334	± 0.05	4.63	0.96	± 0.05	3		1840.258 ± 0.06		7.45	1.37	± 0.1	2
	790.1	± 0.2	0.63		± 0.1	4		2032.113 ± 0.045		36.94	6.5	± 0.5	1
	804.35	± 0.06	4.98	1.00	± 0.05	3		2041.24 ± 0.050		11.94	2.1	± 0.15	1
	815.32	± 0.09	1.33	0.18	± 0.01	4		2047.28	± 0.15	0.39	0.08	± 0.01	4
	842.85	± 0.2	0.88		± 0.1	4		2088.78 ± 0.06		4.13			1
	853.17	± 0.1	1.20		± 0.15	4		2114.30 ± 0.075		3.07	0.47	± 0.04	1
	871.070	± 0.06	8.94	1.80	± 0.09	3		2223.24	+ 0.15	0.87			3
	877.39	± 0.035	17.04	3.4	± 0.17	1							