

$^{47}\text{Ti}(\alpha, p\gamma)$ **1977Ke17**

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Jun Chen and Balraj Singh		NDS 157, 1 (2019)	15-Apr-2019

1977Ke17: E(α)=10 MeV beam from the University of Melbourne 5U Pelletron accelerator. Enriched target. Measured $p\gamma$ -coin using Ge(Li) and annular Si in split-target technique, lifetimes by DSAM.

 ^{50}V Levels

E(level) [†]	J ^{π} #	T _{1/2} [‡]	E(level) [†]	J ^{π} #	T _{1/2} [‡]
0.0	6 ⁺		1495.3 14	1 ⁺	38 fs 8
226.3 5	5 ⁺	<3.7 ps	1519.0 11	2 ⁺	139 fs 14
320.4 6	4 ⁺		1563.5 11	2 ⁺	0.7 ps +4-2
355.7 9	3 ⁺		1677.3 11	3 ⁺	>320 fs
388.3 10	2 ⁺		1700.4 12	(3 ⁺ ,4 ⁺ ,5 ⁺)	0.35 ps 10
837.2 8	5 ⁺	33 fs 10	1725.0 8	(8) ⁺	0.14 ps 6
910.0 7	(7) ⁺	43 fs 8	1752.5 8	3 ⁺ ,4 ⁺ ,5 ⁺	>1.3 ps
910.6 9	4 ⁺	60 fs 12	1761.8 8		<5 fs
1300.8 11	2 ⁺	43 fs 8	1810.1 12	(2,3) ⁺	>2.9 ps
1332.3 14	1 ⁺	<10 fs	1882.2 13	(4 ⁺ ,5 ⁺ ,6 ⁺)	15 fs 8
1402.1 8	3 ⁺	>0.8 ps			

[†] From least-squares fit to E γ data, assuming 1 keV for E γ when not stated. Δ E(level) includes \approx 0.5 keV added in quadrature to account for uncertainties in E γ calibration.

[‡] From DSAM in **1977Ke17**.

From Adopted Levels.

 $\gamma(^{50}\text{V})$

E γ	E _i (level)	J ^{π} _i	E _f	J ^{π} _f	E γ	E _i (level)	J ^{π} _i	E _f	J ^{π} _f
226.2 6	226.3	5 ⁺	0.0	6 ⁺	1046	1402.1	3 ⁺	355.7	3 ⁺
320.6 8	320.4	4 ⁺	0.0	6 ⁺	1082	1402.1	3 ⁺	320.4	4 ⁺
376	1677.3	3 ⁺	1300.8	2 ⁺	1107	1495.3	1 ⁺	388.3	2 ⁺
492	1402.1	3 ⁺	910.6	4 ⁺	1130	1519.0	2 ⁺	388.3	2 ⁺
509	1810.1	(2,3) ⁺	1300.8	2 ⁺	1164	1519.0	2 ⁺	355.7	3 ⁺
517	837.2	5 ⁺	320.4	4 ⁺	1175	1563.5	2 ⁺	388.3	2 ⁺
684	910.6	4 ⁺	226.3	5 ⁺	1208	1563.5	2 ⁺	355.7	3 ⁺
815	1725.0	(8) ⁺	910.0	(7) ⁺	1289	1677.3	3 ⁺	388.3	2 ⁺
837	837.2	5 ⁺	0.0	6 ⁺	1322	1677.3	3 ⁺	355.7	3 ⁺
851	1761.8		910.6	4 ⁺	1380	1700.4	(3 ⁺ ,4 ⁺ ,5 ⁺)	320.4	4 ⁺
910	910.0	(7) ⁺	0.0	6 ⁺	1397	1752.5	3 ⁺ ,4 ⁺ ,5 ⁺	355.7	3 ⁺
913	1300.8	2 ⁺	388.3	2 ⁺	1422	1810.1	(2,3) ⁺	388.3	2 ⁺
944 [†]	1300.8	2 ⁺	355.7	3 ⁺	1432	1752.5	3 ⁺ ,4 ⁺ ,5 ⁺	320.4	4 ⁺
944 [†]	1332.3	1 ⁺	388.3	2 ⁺	1526	1752.5	3 ⁺ ,4 ⁺ ,5 ⁺	226.3	5 ⁺
1014	1402.1	3 ⁺	388.3	2 ⁺	1725	1725.0	(8) ⁺	0.0	6 ⁺
1045	1882.2	(4 ⁺ ,5 ⁺ ,6 ⁺)	837.2	5 ⁺	1762	1761.8		0.0	6 ⁺

[†] Multiply placed.

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Legend

Level Scheme

● Coincidence

