

$^{137}\text{Te} \beta^-$ decay 1985Sa15

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	E. Browne, J. K. Tuli		NDS 108,2173 (2007)	1-Oct-2006

Parent: ^{137}Te : E=0.0; $J^\pi=(7/2^-)$; $T_{1/2}=2.49$ s 5; $Q(\beta^-)=6.94\times 10^3$ 12; % β^- decay=100.0Measured: γ , $\gamma\gamma$, $\beta\gamma$ (1985Sa15), γ (1977Pf01), delayed neutrons (1975As04, 1984Ma39). ^{137}I Levels

E(level)	J^π
0.0	(7/2 ⁺)
243.3	(5/2 ⁺)
372.6	
601.2	
712.7	
1169.0	

 β^- radiations

E(decay) [†]	E(level)
6.79×10^3 30	243.3

[†] $E\beta^- = 6790$ 300 coin with 243.3 γ (1985Sa15). $\gamma(^{137}\text{I})$

E $_\gamma$	I $_\gamma$	E $_i$ (level)	J $^\pi_i$	E $_f$	J $^\pi_f$	E $_\gamma$	I $_\gamma$	E $_i$ (level)	E $_f$	J $^\pi_f$
129.0 3	138 19	372.6		243.3	(5/2 ⁺)	^x 554.0 2	336 30			
243.3 1	1000 60	243.3	(5/2 ⁺)	0.0	(7/2 ⁺)	601.2 2	82.0 57	601.2	0.0	(7/2 ⁺)
341.1 2	125 14	712.7		372.6		712.7 4	124 19	712.7	0.0	(7/2 ⁺)
358.6 2	188 17	601.2		243.3	(5/2 ⁺)	^x 896.2 3	127 20			
372.6 1	153 16	372.6		0.0	(7/2 ⁺)	925.7 4	104 20	1169.0	243.3	(5/2 ⁺)
469.1 3	205 44	712.7		243.3	(5/2 ⁺)					

^x γ ray not placed in level scheme.

