^{154}Tm $\varepsilon+\beta^+$ decay (8.1 s) 1997To12

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	N. Nica	NDS 200,2 (2025)	22-Aug-2022

Parent: ^{154}Tm: E=0; $J^\pi=(2^-)$; $T_{1/2}$=8.1 s *3*; Q(ε)=8178 *15*; %ε+%β^+ decay=46 *5*
^{154}Tm-Q($\varepsilon+\beta^+$): From 2021Wa16.
^{154}Tm-%ε+%β^+ decay: From 1997To12.
Additional information 2.
1997To12: Source material produced by (^{64}Zn,3pxn) on ^{92}Mo and ^{94}Mo, followed by isotope separation. Coincidences among α, β^+, and γ with Si, Ge, and plastic scintillation detectors.
Level scheme is incomplete.

^{154}Er Levels

E(level)	J^π †	$T_{1/2}$
0	0^+	3.73 min *9*
560.8	2^+	

† From ^{154}Er Adopted Levels.

$\gamma(^{154}Er)$

Iγ normalization: Additional information 4.

E_γ	I_γ	E_i(level)	J_i^π	E_f	J_f^π	Mult.†	α‡	Comments
560.8	100	560.8	2^+	0	0^+	E2	0.01231 *17*	α(K)=0.00992 *14*; α(L)=0.001859 *26*; α(M)=0.000422 *6* α(N)=9.75×10^{-5} *14*; α(O)=1.332×10^{-5} *19*; α(P)=5.54×10^{-7} *8*

† From ^{154}Er Adopted γ radiations.
‡ Additional information 3.

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Decay Scheme

Intensities: Relative I_γ