
 ^{154}Yb α decay [1996Pa01](#)

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	S. K. Basu, A. A. Sonzogni		NDS 114, 435 (2013)	1-Apr-2013

Parent: ^{154}Yb : E=0.0; $J^\pi=0^+$; $T_{1/2}=0.409$ s 2; $Q(\alpha)=5474.2$ 17; % α decay=92.6 12

 ^{150}Er Levels

<u>E(level)</u>	<u>J^π</u>
0.0	0^+

 α radiations

<u>$E\alpha$</u>	<u>E(level)</u>	<u>$I\alpha^\ddagger$</u>	<u>HF†</u>	Comments
5330.9 17	0.0	100	1.0	$E\alpha$: recommended by 1991Ry01 . $E\alpha=5331$ 4, recently measured by 1996Pa01 , agrees well with the recommended energy. $I\alpha$: only one α group was observed. An upper limit of $1.9\times 10^{-7}\%$ of α decay is calculated for an unobserved 3793-keV α to the 2^+ state at 1578.87 keV in ^{150}Er by requiring $\text{Hf}(3793\alpha)$ larger than 1.

† $r_0(^{150}\text{Er})=1.5570$ 25 is calculated from $\text{Hf}(5330.9\alpha)=1.0$.

‡ For absolute intensity per 100 decays, multiply by 0.926 12.