

^{152}Ho α decay (50.0 s)

<u>Type</u>	<u>Author</u>	<u>History Citation</u>	<u>Literature Cutoff Date</u>
Full Evaluation	N. Nica	NDS 117, 1 (2014)	1-Oct-2013

Parent: ^{152}Ho : E=160 *I*; $J^\pi=9^+$; $T_{1/2}=50.0$ s *4*; $Q(\alpha)=4507.3$ *I3*; % α decay=10.8 *I7*

^{152}Ho -% α decay: av of [1979To09](#) and [1981Ga36](#); others: 0.064 *I3* and 0.04 *I* ([1974Sc19](#)), 0.19 *5* ([1963Ma17](#)).

Measured: E α ([1973BoXL](#),[1970To16](#),[1963Ma17](#)), α - γ coin ([1987LiZT](#)) branching ([1979To09](#),[1978ToZZ](#),[1974Sc19](#),[1963Ma17](#)).

 ^{148}Tb Levels

<u>E(level)</u>	<u>J^π[†]</u>	<u>$T_{1/2}$</u>	<u>Comments</u>
90.1 <i>3</i>	(9) ⁺	2.20 min <i>5</i>	$T_{1/2}$: from Adopted Levels, Gammas dataset.
328	7 ⁺		
406	8 ⁺		

[†] From Adopted Levels.

 α radiations

<u>Eα</u>	<u>E(level)</u>	<u>Iα[†]</u>	<u>HF</u>	<u>Comments</u>
4149	406	<0.2		E α : from 1987LiZT ; others: 4453 <i>3</i> (1973BoXL), 4460 <i>10</i> (1970To16), 4450 <i>20</i> (1963Ma17).
4225	328	<0.2		
4454 <i>3</i>	90.1	100	2.5	

[†] For absolute intensity per 100 decays, multiply by 0.108 *I7*.

 $\gamma(^{148}\text{Tb})$

<u>Eγ</u>	<u>E$_i$(level)</u>	<u>J^π_i</u>	<u>E$_f$</u>	<u>J^π_f</u>
78	406	8 ⁺	328	7 ⁺
238	328	7 ⁺	90.1	(9) ⁺
316	406	8 ⁺	90.1	(9) ⁺

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Decay Scheme

