## <sup>156</sup>Ho IT decay (9.5 s) 1999KaZV,1995KaZS

		History	
Туре	Author	Citation	Literature Cutoff Date
Full Evaluation	C. W. Reich	NDS 113, 2537 (2012)	1-Mar-2012

Parent: <sup>156</sup>Ho: E=52.37;  $J^{\pi}=1^-$ ;  $T_{1/2}=9.5$  s *15*; %IT decay=100.0 Additional information 1.

State produced primarily in the decay of <sup>156</sup>Er. Numerous studies of this decay have been reported. For a description of these studies, see the <sup>156</sup>Er Decay Data set.

<sup>156</sup> Ho	Levels
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E(level)	Jπ†	T <sub>1/2</sub>	Comments
0	4 <sup>-</sup>	56 min <i>1</i>	<ul> <li>T<sub>1/2</sub>: From the adopted values.</li> <li>%IT=?; %ε+%β<sup>+</sup>=?</li> <li>Probable conf=π5/2[402]-v3/2[521], the Σ=0 coupling of two orbitals. The g.s. represents the Σ=1 coupling of these two.</li> <li>T<sub>1/2</sub>: From 1995KaZS, (ce(L)(52γ),t).</li> </ul>
52.37	1 <sup>-</sup>	9.5 s <i>15</i>	

<sup>†</sup> From the adopted values.

## $\gamma(^{156}\text{Ho})$

I $\gamma$  normalization: The IT-decay branching is presently unmeasured. From the intensity balance at this level, the evaluator infers that the intensity of a possible  $\varepsilon + \beta^+$  decay branch is small. Also, if log *ft* of a possible  $\beta$  transition to the <sup>156</sup>Dy g.s. is assumed to be>6.0, then  $\varepsilon + \beta^+ < 1$ . The evaluator has assumed that %IT=100.

$E_{\gamma}$	$I_{\gamma}^{\dagger}$	$E_i$ (level)	$\mathbf{J}_i^{\pi}$	$E_f  J_f^{\pi}$	Mult.	α‡	$I_{(\gamma+ce)}^{\dagger}$	Comments
52.37	0.0240	52.37	1-	0 4-	M3	4.17×10 <sup>3</sup>	100	ce(L)/( $\gamma$ +ce)=0.740 8; ce(M)/( $\gamma$ +ce)=0.205 4; ce(N+)/( $\gamma$ +ce)=0.0541 11 ce(N)/( $\gamma$ +ce)=0.0480 10; ce(O)/( $\gamma$ +ce)=0.00592 12; ce(P)/( $\gamma$ +ce)=0.000135 3 I $_{\gamma}$ : Computed from $\alpha$ and the listed I( $\gamma$ +ce) value. Mult.: From L and M subshell ratios (1975Al26,1982Vy06) in <sup>156</sup> Er $\varepsilon$ decay.

<sup>†</sup> Absolute intensity per 100 decays.

<sup>‡</sup> Total theoretical internal conversion coefficients, calculated using the BrIcc code (2008Ki07) with Frozen orbital approximation based on  $\gamma$ -ray energies, assigned multipolarities, and mixing ratios, unless otherwise specified.

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