^{156}Pm β^- decay (<5 s) 2007Sh05

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

Parent: ^{156}Pm: E=150.3 *1*; $J^\pi=1^{(+)}$; $T_{1/2}$<5 s; Q(β^-)=5150 *33*; %β^- decay≈2.0
^{156}Pm-$T_{1/2}$: From ^{156}Pm adopted values.
^{156}Pm-Q(β^-): From ^{156}Pm adopted values.
^{156}Pm-J^π: From ^{156}Pm adopted values.
Additional information 1.
Unless noted otherwise, the values are those reported by 2007Sh05.
Activity proposed by 2007Sh05 from analysis of the decay of the γ's and ce's from the β^- decay of isotope-separated ^{156}Nd sources. γ's detected using a HPGe detector and a short coaxial detector. Measured Eγ for several γ's, $\gamma\gamma$, $T_{1/2}$.
The decay scheme should be regarded as only fragmentary. Other than $T_{1/2}$ no β^- decay properties are listed.

^{156}Sm Levels

E(level)	J^π	$T_{1/2}$	Comments
0	0^+	9.4 h *2*	
75.9	2^+	>2 ns	E(level): Nominal value from the adopted values.
803.5	(1^-)		

$\gamma(^{156}Sm)$

Iγ normalization: There are no data from which to normalize the Iγ values.

E$_\gamma$	E$_i$(level)	J^π_i	E$_f$	J^π_f
(75.9)	75.9	2^+	0	0^+
[x]261.0[†]				
[x]320.2[†]				
727.6	803.5	(1^-)	75.9	2^+
803.9	803.5	(1^-)	0	0^+

[†] γ in coincidence with the 727.6 and 803.5 γ's.
[x] γ ray not placed in level scheme.

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Decay Scheme