

^{133}In β^- decay 1996Ho16,2000Ho32

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Yu. Khazov and A. Rodionov, F. G. Kondev		NDS 112, 855 (2011)	31-Oct-2010

Parent: ^{133}In : $E=0.0$; $J^\pi=(9/2^+)$; $T_{1/2}=165$ ms 3; $Q(\beta^-)=12917$ SY; $\% \beta^-$ decay=100.0

1995JoZZ, 1996Ho16, 2000Ho32: ^{133}In β^- [from ^{238}U (p,f), $E=1$ GeV]; measured E_γ , I_γ , $\gamma\gamma^-$, $n\gamma^-$, $\beta\gamma$ -coin, $T_{1/2}$ from $(\beta n)\gamma(t)$. ISOLDE facility; plastic scin β detector, two liquid scin n detectors, two Ge γ -ray detectors.

 ^{133}Sn Levels

$E(\text{level})^\dagger$	J^π^\ddagger
0.0	$7/2^-$
853.7 3	$3/2^-$
1560.9 5	$(9/2^-)$
2004.6 10	$(5/2^-)$

† From a least-squares fit to E_γ .

‡ From Adopted Levels.

 $\gamma(^{133}\text{Sn})$

E_γ^\dagger	I_γ^\dagger	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Comments
853.7 3	43 15	853.7	$3/2^-$	0.0	$7/2^-$	The absolute intensity of the transition is about 0.5% per decay of ^{133}In (1996Ho16, 2000Ho32).
1560.9 5	100 10	1560.9	$(9/2^-)$	0.0	$7/2^-$	
2004.6 10	19 6	2004.6	$(5/2^-)$	0.0	$7/2^-$	

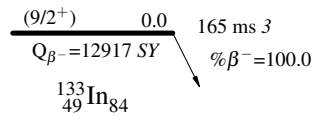
† From 1996Ho16, 2000Ho32; β^- gated intensities are given.

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Decay Scheme

Intensities: Relative I_γ

Legend



- $I_\gamma < 2\% \times I_\gamma^{\max}$
 ———→ $I_\gamma < 10\% \times I_\gamma^{\max}$
 ———→ $I_\gamma > 10\% \times I_\gamma^{\max}$

