^{121}Sn IT decay 1978Hu07

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	S. Ohya	NDS 111, 1619 (2010)	20-Jan-2009

Parent: ^{121}Sn: E=6.29 *8*; $J^{\pi}=11/2^{-}$; $T_{1/2}$=43.9 y *5*; %IT decay=77.6 *20*
^{121}Sn-%IT decay: from %IT=77.6 *20* (1978Hu07).
1968Sn01: semi γ, scin 4π $\beta\gamma$-coincidence β spectra.
1978Hu07: semi, scin 4π $\beta\gamma$ coincidence, deduced $I(\beta^{-})/I(IT)$, I(L x ray).
2002RE18: semi,γ(t), deduced $T_{1/2}$.

^{121}Sn Levels

E(level)	J^{π}†	$T_{1/2}$	Comments
0.0	$3/2^{+}$	27.03 h *4*	
6.29 *8*	$11/2^{-}$	43.9 y *5*	$T_{1/2}$: from 2002Re18.

† From Adopted Levels.

$\gamma(^{121}Sn)$

E_{γ}	E_i(level)	J_i^{π}	E_f	J_f^{π}	Mult.	α‡	$I_{(\gamma+ce)}$†	Comments
6.29 *8*	6.29	$11/2^{-}$	0.0	$3/2^{+}$	[M4]	8.7×10^{10} *10*	100	ce(L)/(γ+ce)=0.64 *6*; ce(M)/(γ+ce)=0.30 *4*; ce(N+)/(γ+ce)=0.054 *8* ce(N)/(γ+ce)=0.054 *8*; ce(O)/(γ+ce)=0.000159 *23* Additional information 1. Mult.: from decay scheme. $I_{(\gamma+ce)}$: from decay scheme. E_{γ}: from adopted γ's.

† For absolute intensity per 100 decays, multiply by 0.776 *20*.
‡ Total theoretical internal conversion coefficients, calculated using the BrIcc code (2008Ki07) with Frozen orbital approximation based on γ-ray energies, assigned multipolarities, and mixing ratios, unless otherwise specified.

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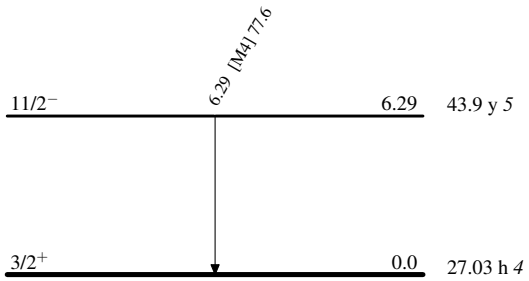
Decay Scheme

%IT=77.6 *20*



$^{121}_{50}Sn_{71}$