

^{113}Sn IT decay (21.4 min) [1961Sc12](#)

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Jean Blachot	NDS 111, 1471 (2010)	1-May-2009

Parent: ^{113}Sn : E=77; $J^\pi=7/2^+$; $T_{1/2}=21.4$ min 4; %IT decay=91.1 23

Measured E_γ , I_γ , $\alpha(K)$ exp from I_γ and I(K x-ray), [1961Sc12](#).

 ^{113}Sn Levels

E(level)	J^π	$T_{1/2}^\dagger$	Comments
0.0	$1/2^+$	115.09 d 4	
77	$7/2^+$	21.4 min 4	J^π : atomic beam (1976Fu06), 77 γ is M3(+E4).

† See Adopted Levels.

 $\gamma(^{113}\text{Sn})$

E_γ	$I_\gamma^\dagger$	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Mult.	δ	$\alpha^\ddagger$	Comments
77	0.55	77	$7/2^+$	0.0	$1/2^+$	M3+E4	0.13 2	181 5	$\alpha(K)=103.2$; $\alpha(L)=61.5$; $\alpha(M)=13.3$ 10; $\alpha(N+..)=3.1$ 2 B(M3)(W.u.)=0.029 3; B(E4)(W.u.)= 1.5×10^2 5 E_γ : from 1960Se06 ; other: 79 3 (1961Sc12). Mult., δ : M and δ : from $\alpha(K)$ exp=95 15 (1961Sc12) and $\alpha(K)$ exp/ $\alpha(L)$ exp=1.7 I(1961Se08). %IT from I(K α x ray, ^{113}In)/I(K α x ray, ^{113}Sn).

† For absolute intensity per 100 decays, multiply by 0.911 23.

‡ 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

Intensities: $I_{(\gamma+ce)}$ per 100 parent decays
%IT=91.1 23

