

^{125}In β^- decay (12.2 s) [1976Fo02,1978A118](#)

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	J. Katakura	NDS 112, 495 (2011)	1-Jan-2010

Parent: ^{125}In : $E=360.12$ 9; $J^\pi=1/2^{(-)}$; $T_{1/2}=12.2$ s 2; $Q(\beta^-)=5418$ 30; $\% \beta^-$ decay=100.0

[1976Fo02](#): U(n,F), on-line mass, semi γ .

[1978A118](#): U(n,F), on-line mass, plastic scin coin-anticoin arrangement.

The decay scheme is that proposed by [1976Fo02](#). The scheme is partial because highly excited levels are missing.

 ^{125}Sn Levels

E(level)	J^π ^{†‡}	$T_{1/2}$ [‡]	Comments
0.0	$11/2^-$	9.64 d 3	
27.50 14	$3/2^+$	9.52 min 5	Additional information 1.
215.13 3	$1/2^+$		

[†] From a least-squares fit to E_γ 's by evaluator.

[‡] From Adopted Levels.

 β^- radiations

E(decay)	E(level)	$I\beta^-$ [†]	Log ft	Comments
(5.56×10^3) 3	215.13	59 7	5.82 6	av $E\beta=2456$ 15 E(decay): $E_\beta=5515$ 30 is reported by 1987Sp09 from $\beta\gamma$ -coin with a gate on the 188 γ . The authors' systematic uncertainty of 30 keV must be added in quadrature. Other: 5450 120 (1978A118).
(5.75×10^3) 3	27.50	41 9	6.04 10	av $E\beta=2545$ 15

[†] Absolute intensity per 100 decays.

 $\gamma(^{125}\text{Sn})$

I γ normalization: Branching of 52% 6 for 187.6 γ ([1986Go10](#)).

E_γ [‡]	I_γ ^{#@}	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Mult.	δ	α [†]	Comments
187.63 3	52 6	215.13	$1/2^+$	27.50	$3/2^+$	M1+E2	$0.9 + 13-6$	0.13 3	$\alpha(\text{K})=0.110$ 22; $\alpha(\text{L})=0.018$ 6; $\alpha(\text{M})=0.0035$ 13; $\alpha(\text{N}+..)=0.00069$ 23 $\alpha(\text{N})=0.00065$ 22; $\alpha(\text{O})=4.5 \times 10^{-5}$ 9 Mult., δ : From $\alpha(\text{K})_{\text{exp}}=0.112$ 20 (1976Fo02).

[†] [Additional information 2.](#)

[‡] From [1976Fo02](#).

[#] From [1986Go10](#).

[@] Absolute intensity per 100 decays.

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Decay Scheme

Intensities: $I_{(\gamma+ce)}$ per 100 parent decays

Legend

