

^{125}Sn IT decay (6.2 μs) **2000Pi03**

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

Parent: ^{125}Sn : E=1892.8; $J^\pi=(19/2^+)$; $T_{1/2}=6.2 \mu\text{s}$ 7; %IT decay=100.0

2000Pi03: Isomer of ^{125}Sn formed in ^{233}U thermal neutron fission; LOHENGRIN spectrometer; Measured γ , ce, $\gamma\gamma$, γ -e, e-e, $T_{1/2}$; No ce were observed.

 ^{125}Sn Levels

E(level)	J^π^\dagger	$T_{1/2}$
0.0	11/2 ⁻	
1087.35 18	(15/2 ⁻)	
1218.86 18	(13/2 ⁻)	
1880.01 20	(15/2 ⁺)	
1892.8 3	(19/2 ⁺)	6.2 μs 7

[†] From Adopted Levels.

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

2000Zh47 report strong 792-1087 delayed cascade and a parallel but weak delayed 661-1218 cascade with a half-life of $\approx 7 \mu\text{s}$.

E_γ	I_γ	$E_i(\text{level})$	J_i^π	E_f	J_f^π
≈ 10		1892.8	(19/2 ⁺)	1880.01	(15/2 ⁺)
661.0 2	20 3	1880.01	(15/2 ⁺)	1218.86	(13/2 ⁻)
792.8 2	40 6	1880.01	(15/2 ⁺)	1087.35	(15/2 ⁻)
805.5 2	40 6	1892.8	(19/2 ⁺)	1087.35	(15/2 ⁻)
1087.5 2	81 12	1087.35	(15/2 ⁻)	0.0	11/2 ⁻
1218.7 2	19 3	1218.86	(13/2 ⁻)	0.0	11/2 ⁻

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Decay Scheme

Intensities: Relative I_γ
%IT=100.0

Legend

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

