

^{126}In IT decay: 26 μs 2004Sc42

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	H. Iimura, J. Katakura, S. Ohya		NDS 180, 1 (2022)	1-Oct-2021

Parent: ^{126}In : E=243.3 2; $J^\pi=(1^-)$; $T_{1/2}=26 \mu\text{s}$ 4; %IT decay=100.0

^{126}In isomer produced in thermal neutron induced fission of ^{241}Pu followed by separation of fission fragments by LOHENGRIN mass separator.

Measured E_γ , I_γ , $\gamma\gamma$ with two Ge detectors: one clover detector and one triple cryostat on the Miniball array. The fission fragments were detected in a ΔE -E gas detector to achieve very good mass resolution.

Other: 2003HeZT.

 ^{126}In Levels

E(level)	J^π †	$T_{1/2}$	Comments
0.0	$3^{(+)}$		Configuration= $(\pi g_{9/2})^{-1}(v d_{3/2}^{-1})$.
243.3 2	(1^-)	26 μs 4	$T_{1/2}$: Weighted av. of 22 μs 2 (2004Sc42) and 29 μs 2 (2003HeZT). Configuration= $(\pi g_{9/2})^{-1}(v h_{1/2}^{-1})$.

† From Adopted Levels.

 $\gamma(^{126}\text{In})$

E_γ	$E_i(\text{level})$	J_i^π	E_f	J_f^π
243.3 2	243.3	(1^-)	0.0	$3^{(+)}$

 ^{126}In IT decay: 26 μs 2004Sc42Decay Scheme

%IT=100.0

