^{113}In(γ,xn) 2010Ra01,1975Ku10

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	S. Lalkovski, F. G. Kondev	NDS 124, 157 (2015)	1-Aug-2014

2010Ra01: Facility: Pohlang Accelerator Lab Linac; Beam: E(γ)=40-70 MeV from pulsed beam of electrons impinging 0.1 mm thick W target with an area of 100 mm x 100 mm; Sample: high-purity ^{nat}In; Detectors: one HPGe; Measured: Eγ, Iγ, activation; Deduced: Isomeric ratio (IR).

1975Ku10: Facility: Allis-Chalmers betatron at Milwaukee School of Engineering; Beam: Bremsstrahlung from E(e)=25 MeV; Target: In foils, placed 50 cm after the Pt target at the betatron; Detectors: one Ge(Li); Measured: γ, Eγ, γ(t); Deduced: IT, Isomeric ratio (IR), $T_{1/2}$.

Others: 2008Ma25, 2008Zh29, 1998Ko24, 1993PaZS, 1983Vi02.

^{112}In Levels

E(level)†	J$^\pi$‡	$T_{1/2}$‡	Comments
0.0	1$^+$	14.88 min *15*	
156.6	4$^+$	20.67 min *8*	IR=Y_m/Y_g= 3.9 *3*, 4.5 *3* and 4.9 for E(γ)=50, 60, and 70 MeV in 2010Ra01, respectively. Here Y_m and Y_g are the isomeric and the ground state yields, respectively. Others: 0.77 *1* for E=16 MeV in 2008Ma25;

† From Eγ.
‡ From the Adopted Levels.

γ(^{112}In)

E$_\gamma$†	E$_i$(level)	J$_i^\pi$	E$_f$	J$_f^\pi$
156.6	156.6	4$^+$	0.0	1$^+$

† From 2010Ra01.

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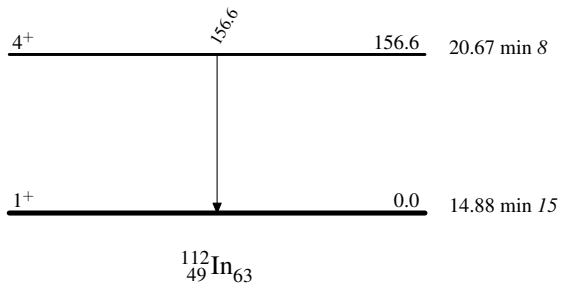
Level Scheme



$^{112}_{49}In_{63}$