^{112}Sn(p,p′γ) 1981Ba05,1981Jo03

History

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

1981Jo03,1981Ba05: Facility: Uppsala Tandem Accelerator Lab, Univ. Jyvaskyla cyclotron; Beam: E(p)=6-8 MeV; Target: 15 mg/cm^2 self-supporting, enriched to 80.5% in ^{112}Sn; Detectors: magnetic lens, one Ge(Li), one surface-barrier Si(Li), one plastic scintillator; Measured: P-γ, e-γ, cyclotron RF-e, P-γ(t), Eγ; Deduced: level scheme.
Others: 1968Ma34, 1977BaXX, 1979BlZZ.

^{112}Sn Levels

E(level)†	Jπ‡
0.0	0^+
1256.7 *4*	2^+
2150.7 *4*	2^+
2190.9 *4*	0^+
2247.9 *7*	4^+
2354.3 *7*	3^-

† From a least-squares fit to Eγ.
‡ From the Adopted Levels.

γ(^{112}Sn)

Eγ†	Iγ	Ei(level)	J_i^π	E_f	J_f^π	Mult.	$I_{(\gamma+ce)}$	Comments
894.0 *5*		2150.7	2^+	1256.7	2^+			
934.12 *4*	100	2190.9	0^+	1256.7	2^+	E2		Eγ,Mult.: From adopted gammas.
991.2 *5*		2247.9	4^+	1256.7	2^+			
1097.6 *5*		2354.3	3^-	1256.7	2^+			
1256.7 *5*		1256.7	2^+	0.0	0^+			
2150.7 *5*		2150.7	2^+	0.0	0^+			
2190.9 *5*		2190.9	0^+	0.0	0^+	E0	0.1455 *21*	Eγ,Mult.: from ce measurements in ^{112}Sn(p,p′γ) (1981Ba05). $I_{(\gamma+ce)}$: from Ice(K)(2190.9γ)/Ice(K)(934.12γ)=0.55 *10* in ^{112}Sn(p,p′γ) (1981Ba05), α(K)(934.12γ)=0.001301 *19*, Iγ(934.12γ)=100 and Ω_K/Ω_T=0.8942 (2008Ki07).

† From 1981Jo03, unless otherwise noted.

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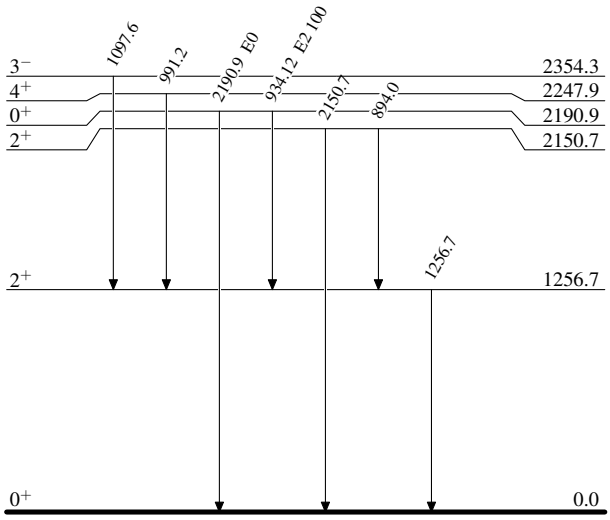
Level Scheme

Intensities: Type not specified



$^{112}_{50}Sn_{62}$