

$^{110}\text{Cd}(^3\text{He},n\gamma), ^{112}\text{Cd}(^3\text{He},3n\gamma)$ [1989An14](#)

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

[1989An14](#): Facility: Univ. Cologne Tandem accelerator; Beam $E(^3\text{He})=29$ MeV; Target: 4 mg/cm² enriched to 90.8% in ^{106}Cd and having 2% ^{112}Cd admixture; Detectors: two HPGe and two NE213 liquid scintillators; Measured: γ - γ , γ - $\gamma(t)$, $E\gamma$; Deduced: ^{112}Sn level scheme, $T_{1/2}$, $B(E2)$; Also, from the same collaboration: [1988Pe17](#).

Other: [1967Be07](#).

 ^{112}Sn Levels

$E(\text{level})^\dagger$	$J^\pi^\ddagger$	$T_{1/2}$	Comments
0.0	0^+		
1256.6 <i>10</i>	2^+		
2247.2 <i>15</i>	4^+		
2548.9 <i>18</i>	6^+	13.5 ns <i>4</i>	$T_{1/2}$: weighted average of 12.1 ns <i>15</i> (1989An14 , 1988Pe17) and 13.6 ns <i>4</i> (1989An14) from centroid shift and slope analysis, respectively.

[†] From a least-squares fit to $E\gamma$.

[‡] From the Adopted Levels.

 $\gamma(^{112}\text{Sn})$

$E_\gamma^\dagger$	$E_i(\text{level})$	J_i^π	E_f	J_f^π
301.7 <i>10</i>	2548.9	6^+	2247.2	4^+
990.6 <i>10</i>	2247.2	4^+	1256.6	2^+
1256.6 <i>10</i>	1256.6	2^+	0.0	0^+

[†] From [1989An14](#). ΔE deduced by the evaluators.

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Level Scheme