

$^{110}\text{Cd}(^3\text{He},3n\gamma), ^{104}\text{Pd}(^{12}\text{C},\alpha 2n\gamma)$ 1989An14

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	G. Gürdal and F. G. Kondev	NDS 113, 1315 (2012)		1-Aug-2011

$^{110}\text{Cd}(^3\text{He},3n\gamma)$: Beam: $E(^3\text{He})=29$ MeV. Target: 4 mg/cm² self-supporting metallic target, enriched to 1.5% in ^{110}Cd .

^3He beam was provided by the Cologne tandem. Two HPGe detectors and a set of two NE213 liquid scintillator were used to detect γ -rays. Measured: $E\gamma$, $I\gamma$, $\gamma\gamma(t)$. Deduced: ^{110}Sn levels, $T_{1/2}$, $B(E2)$.

$^{104}\text{Pd}(^{12}\text{C},\alpha 2n\gamma)$: $E(^{12}\text{C})=63$ MeV. Measured: $E\gamma$. Deduced: ^{110}Sn levels.

 ^{110}Sn Levels

$E(\text{level})^\dagger$	$J^\pi^\ddagger$
0.0	0^+
1211.6 10	2^+
2196.2 15	4^+
2477.0 18	6^+

[†] From least-squares fit to $E\gamma$'s. $\Delta E\gamma = 1$ keV by the evaluators.

[‡] From Adopted Levels.

 $\gamma(^{110}\text{Sn})$

$E_\gamma^\dagger$	$E_i(\text{level})$	J_i^π	E_f	J_f^π
280.8	2477.0	6^+	2196.2	4^+
984.6	2196.2	4^+	1211.6	2^+
1211.6	1211.6	2^+	0.0	0^+

[†] From $^{110}\text{Cd}(^3\text{He},3n\gamma)$.

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Level Scheme