

Adopted Levels

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	T. Tamura	NDS 108,455 (2007)	30-Sep-2006

$Q(\beta^-)=6.37\times 10^3$ 5; $S(n)=5.81\times 10^3$ 6; $S(p)=9.79\times 10^3$ 5; $Q(\alpha)=-6.44\times 10^3$ 5 [2012Wa38](#)

Note: Current evaluation has used the following Q record 6370 505810 609810 100-6440 80 [2003Au03](#).

 ^{122}In LevelsCross Reference (XREF) Flags

A ^{122}Cd β^- decay (5.24 s)
B $^{122}\text{Sn}(t,^3\text{He})$

E(level)	J^π	$T_{1/2}$	XREF	Comments
0.0	1^+	1.5 s 3	AB	$\% \beta^- = 100$ Nuclear rms charge radius=4.6557 fm 50 (2004An14). J^π : log $ft=5.1$ to 0^+ . $T_{1/2}$: from γ -multiscaler counting (1971Ta07). $\% \beta^- = 100$ $\mu = +4.318$ 5; $Q = +0.81$ 2 μ : from collinear fast-beam laser spectroscopy (1987Eb02,2005St24). Q : from collinear fast-beam laser spectroscopy and includes the Sternheimer correction (1987Eb02,2005St24). No significant IT decay branching is expected because of $\Delta J=4$ for $E(\text{IT})=40$ keV. $E(\text{level})$: Q_β systematics: $E(5^+) - E(1^+) = 40$ keV 60 in NUBASE (2003Au02). J^π : from collinear fast-beam laser spectroscopy (1987Eb02); $\pi = +$ from log $ft=4.9$ to 4^+ . $T_{1/2}$: from γ -multiscaler counting (1979Ch10).
157 15			B	
229 15			B	
262 15			B	
2.9×10^2 14	(8^-)	10.8 s 4		$\% \beta^- = 100$ $\mu = +3.781$ 6; $Q = +0.59$ 2 μ : from collinear fast-beam laser spectroscopy (1987Eb02,2005St24). Q : from collinear fast-beam laser spectroscopy and includes the Sternheimer correction (1987Eb02,2005St24). $E(\text{level})$: Q_β systematics: $E(8^-) - E(1^+) = 290$ keV 140 in NUBASE (2003Au02). J^π : From collinear fast-beam laser spectroscopy (1987Eb02,2005St24); systematics of (8^-) isomers in $^{120-128}\text{In}$ (1979Fo10). $T_{1/2}$: from γ -multiscaler counting (1979Ch10).
299 15			B	
383 15			B	
415 20			B	
598 15			B	
801 15			B	
942 25			B	$E(\text{level})$: unresolved states in $(t,^3\text{He})$.
1070? 25			B	
1120? 25			B	
1150 25			B	