

Adopted Levels, Gammas

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	D. M. Symochko, E. Browne, J. K. Tuli		NDS 110,2945 (2009)	1-Dec-2008

$Q(\beta^-)=5.33\times 10^3$ 4; S(n)=7163 15; S(p)=10546 15; $Q(\alpha)=-6841$ 17 [2012Wa38](#)

Note: Current evaluation has used the following Q record 5.33E+3 4 7163 1510480 -6.858 80 [2009AuZZ](#).

$Q(\alpha)=-6770$ 120 ([2003Au03](#)).

Assignment from mass separation and K x ray analysis for activities produced by $^{235}\text{U}(\text{n},\text{f})$ E=th ([1975Ka09](#)).

Excitation energies of 2.1-s and 6.0-s isomers are not known.

 ^{119}Ag LevelsCross Reference (XREF) Flags

A ^{119}Pd β^- decay (0.92 s)

E(level)	J^π	$T_{1/2}$	XREF	Comments
0.0+x	(7/2 ⁺)	2.1 s 1	A	$\% \beta^- = 100$ J^π : from syst of spins and parities for low-lying levels in lighter odd-Ag isotopes, no β -feeding to the g.s. of ^{119}Cd . $T_{1/2}$: from $\gamma(\text{t})$ (1975Ka09).
0.0+y	(1/2 ⁻)	6.0 s 5	A	$\% \beta^- = 100$ J^π : from syst of spins and parities for low-lying levels in lighter odd-Ag isotopes. $T_{1/2}$: from $\beta(\text{t})$ (1970OsZZ).
130+x	(7/2 ⁺ , 9/2 ⁺ , 11/2 ⁺)		A	J^π : γ to (7/2 ⁺), no γ from (1/2, 3/2 ⁻).
256+y	(1/2, 3/2 ⁻)		A	J^π : γ to (1/2 ⁻), no γ to (7/2 ⁺).
326+y	(1/2, 3/2 ⁻)		A	J^π : γ to (1/2 ⁻), no γ to (7/2 ⁺).

 $\gamma(^{119}\text{Ag})$

$E_i(\text{level})$	J_i^π	E_γ	I_γ	E_f	J_f^π	Mult.	$\alpha^\dagger$
130+x	(7/2 ⁺ , 9/2 ⁺ , 11/2 ⁺)	129.9 3	100	0.0+y	(1/2 ⁻)		
256+y	(1/2, 3/2 ⁻)	256.6 3	100	0.0+x	(7/2 ⁺)		
326+y	(1/2, 3/2 ⁻)	69.9 3	23	256+y	(1/2, 3/2 ⁻)	M1	1.17
		326.1 3	100	0.0+y	(1/2 ⁻)		

[†] Total theoretical internal conversion coefficients, calculated using the BrIcc code ([2008Ki07](#)) with Frozen orbital approximation based on γ -ray energies, assigned multipolarities, and mixing ratios, unless otherwise specified.

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Level Scheme

Intensities: Relative photon branching from each level

