

Adopted Levels, Gammas

Type	History		Literature Cutoff Date
	Author	Citation	
Full Evaluation	Jean Blachot	ENSDF	1-Mar-2009

$Q(\beta^-)=4236$ 14; $S(n)=7711$ 14; $S(p)=9639$ 16; $Q(\alpha)=-5839$ 16 [2012Wa38](#)

Note: Current evaluation has used the following Q record 4238 157716 159540 30 -5.93×10^{35} [2009AuZZ](#).

α : [Additional information 1](#).

 ^{117}Ag LevelsCross Reference (XREF) Flags

A ^{117}Pd β^- decay
B ^{117}Ag IT decay

E(level)	J^π	$T_{1/2}^\ddagger$	XREF	Comments
0.0 [†]	(1/2 ⁻)	72.8 s +20-7	AB	$\% \beta^- \approx 100$ J^π : from shell-model systematics.
28.6 [†] 2	(7/2 ⁺)	5.34 s 5	AB	$\% \text{IT}=6.0$ 15; $\% \beta^- = 94.0$ 15 J^π : E3 γ to (1/2 ⁻). $\% \text{IT}$: from 1990Fo07 .
247.5	(3/2 ⁻)		A	J^π : M1 γ to (1/2 ⁻). Syst.
323.9	(5/2 ⁻)		A	J^π : M1 γ to (3/2 ⁻). Syst.

[†] Order of 72.8-s and 5.34-s levels may be reversed ([1990Fo07](#)).

[‡] From [1974Gr29](#). Others: [1969We11](#), [1958Al90](#), [1976LuZV](#).

 $\gamma(^{117}\text{Ag})$

$E_i(\text{level})$	J_i^π	E_γ	I_γ	E_f	J_f^π	Mult.	α	Comments
28.6	(7/2 ⁺)	28.6 2	100	0.0	(1/2 ⁻)	E3	1.15×10^4 6	$\alpha(\text{K})=61$ 4; $\alpha(\text{L})=9.2 \times 10^3$ 5; $\alpha(\text{M})=1.96 \times 10^3$ 9; $\alpha(\text{N})=302$ 14; $\alpha(\text{O})=0.0208$ 7; $\alpha(\text{N}+..)=302$ 14 B(E3)(W.u.)=0.093 25 Mult.: from 1990Fo07 .
247.5	(3/2 ⁻)	247.5 5	100	0.0	(1/2 ⁻)	M1	0.0357	$\alpha(\text{K})=0.0311$ 5; $\alpha(\text{L})=0.00377$ 6; $\alpha(\text{M})=0.000716$ 11; $\alpha(\text{N})=0.0001241$ 19; $\alpha(\text{O})=5.81 \times 10^{-6}$ 9 $\alpha(\text{N}+..)=0.0001299$ 20 Mult.: from 1990PeZU , 1991Pe04 .
323.9	(5/2 ⁻)	76.6 3	11.9 16	247.5	(3/2 ⁻)	M1	0.895 16	$\alpha(\text{K})=0.776$ 14; $\alpha(\text{L})=0.0969$ 18; $\alpha(\text{M})=0.0184$ 4; $\alpha(\text{N})=0.00319$ 6; $\alpha(\text{O})=0.000146$ 3 $\alpha(\text{N}+..)=0.00333$ 6 Mult.: from 1990PeZU , 1991Pe04 .
		323.9 2	100 12	0.0	(1/2 ⁻)			

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Level Scheme

Intensities: Relative photon branching from each level

