

Adopted Levels, Gammas

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Jean Blachot	NDS 113,515 (2012)	1-Jan-2012

$Q(\beta^-)=5084$ 5; $S(n)=5975$ 18; $S(p)=8628$ 9; $Q(\alpha)=-4527$ 19 [2012Wa38](#)

Note: Current evaluation has used the following Q record 5087 5 5972 178629 9 -4512 19 [2011AuZZ](#).

 ^{114}Ag LevelsCross Reference (XREF) Flags

A ^{114}Pd β^- decay
B ^{114}Ag IT decay
C $^{208}\text{Pb}(^{16}\text{O},X\gamma)$

E(level) [‡]	J ^π [†]	T _{1/2}	XREF	Comments
0.0	1 ⁺	4.6 s 1	A	$\% \beta^- = 100$ T _{1/2} : weighted average of 4.5 s 3 (1971Fo22), 5.1 s 3 (1971Ro19), 4.52 s 7 (1972Wa06), and 5.0 s 2 (1975BrYN). J ^π : log ft=4.2 from 0 ⁺ parent.
126.7 2	0 ⁺ , 1 ⁺ , 2 ⁺		A	J ^π : M1 γ to 1 ⁺ .
136.7 2	(⁻)		A	J ^π : (E1) γ to 1 ⁺ .
199	($\leq 6^+$)	1.50 ms 5	BC	$\% \text{IT} = 100$ T _{1/2} : from 1990Pe10 . E(level): the relative position of the four transitions in the cascade is not known (34.5, 43.9, 47.4, 73.1). J ^π : From sum of multiples of cascading transitions.
300.8 2	(6 ⁻)		C	
358.5 3	1 ⁺		A	J ^π : log ft=4.8 from 0 ⁺ parent.
300.8+y	(7 ⁻)		C	
300.8+x [#]	(8 ⁻)		C	
389.7+x [@] 3	(9 ⁻)		C	
742.8+x [#] 4	(10 ⁻)		C	
1043.7+x [@] 4	(11 ⁻)		C	
1465.4+x [#] 5	(12 ⁻)		C	
1885.8+x [@] 5	(13 ⁻)		C	

[†] J without comments are based on band s assignments.

[‡] From least-squares fit to $E\gamma$'s.

[#] Band(A): $\pi g_{9/2} \nu h_{11/2}$, $\alpha=0$.

[@] Band(a): $\pi g_{9/2} \nu h_{11/2}$, $\alpha=1$.

 $\gamma(^{114}\text{Ag})$

E _i (level)	J ^π _i	E _{γ} [†]	I _{γ} [†]	E _f	J ^π _f	Mult.	$\alpha^{\ddagger}$	Comments
126.7	0 ⁺ , 1 ⁺ , 2 ⁺	126.7 2	100	0.0	1 ⁺	M1	0.21	
136.7	(⁻)	136.7 2	100	0.0	1 ⁺	(E1)	0.06	Mult.: E1 is assumed.
300.8	(6 ⁻)	101.8 2	100	199	($\leq 6^+$)			
358.5	1 ⁺	222.0 2	14.0	136.7	(⁻)	[E1]	0.017	
		232.0 2	100 5	126.7	0 ⁺ , 1 ⁺ , 2 ⁺	[M1,E2]	0.058 15	
		358.5 3	33 5	0.0	1 ⁺	[M1,E2]	0.016 2	

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Adopted Levels, Gammas (continued) $\gamma(^{114}\text{Ag})$ (continued)

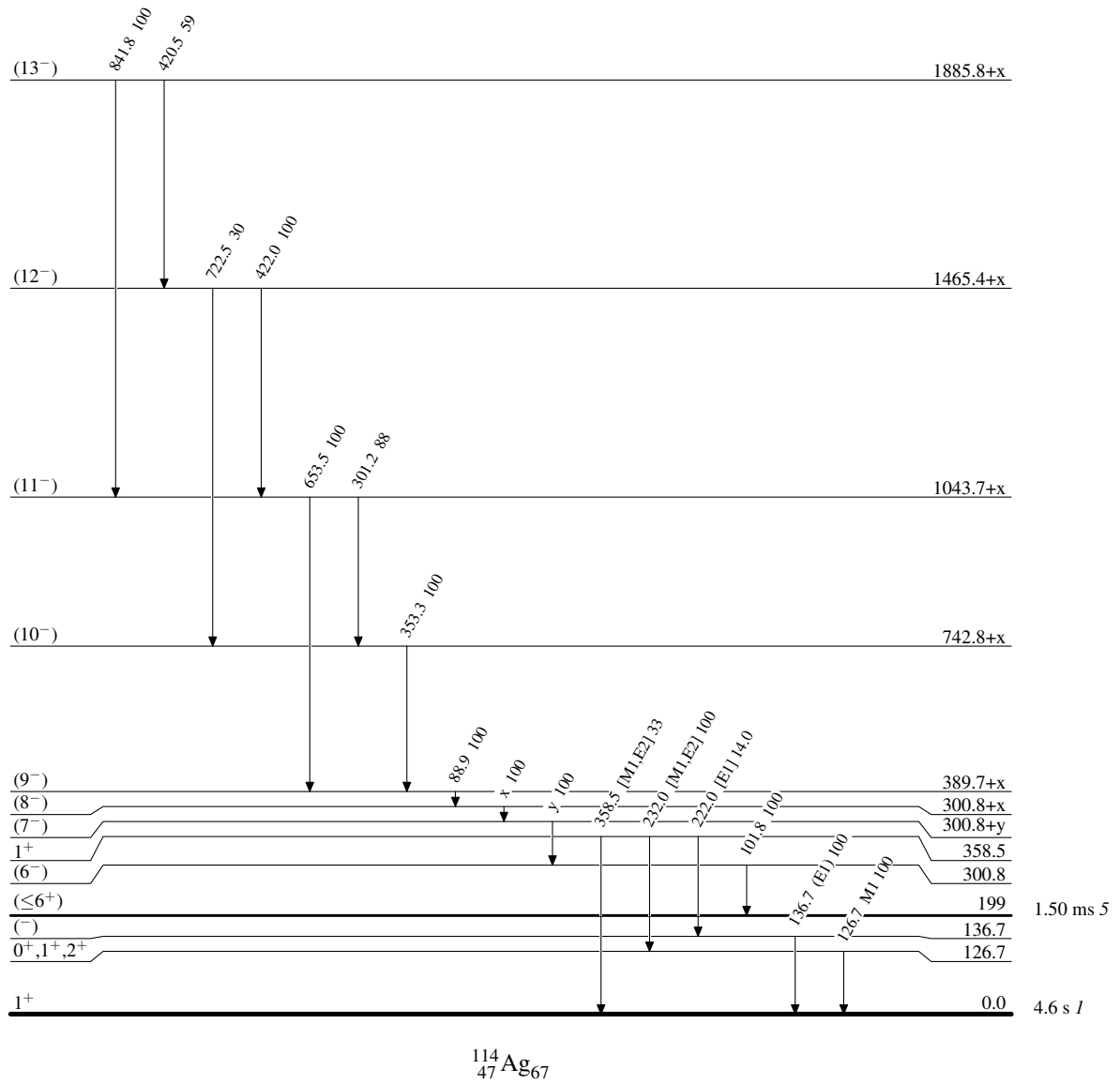
$E_i(\text{level})$	J_i^π	$E_\gamma^\dagger$	$I_\gamma^\dagger$	E_f	J_f^π	$E_i(\text{level})$	J_i^π	$E_\gamma^\dagger$	$I_\gamma^\dagger$	E_f	J_f^π
300.8+y	(7 ⁻)	y	100	300.8	(6 ⁻)	1043.7+x	(11 ⁻)	653.5 3	100 12	389.7+x	(9 ⁻)
300.8+x	(8 ⁻)	x	100	300.8+y	(7 ⁻)	1465.4+x	(12 ⁻)	422.0 4	100 14	1043.7+x	(11 ⁻)
389.7+x	(9 ⁻)	88.9 3	100	300.8+x	(8 ⁻)			722.5 4	30 8	742.8+x	(10 ⁻)
742.8+x	(10 ⁻)	353.3 2	100	389.7+x	(9 ⁻)	1885.8+x	(13 ⁻)	420.5 3	59 15	1465.4+x	(12 ⁻)
1043.7+x	(11 ⁻)	301.2 2	88 12	742.8+x	(10 ⁻)			841.8 4	100 15	1043.7+x	(11 ⁻)

[†] From ^{114}Pd β^- decay and $^{208}\text{Pb}(^{16}\text{O}, X\gamma)$.

[‡] 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.

Adopted Levels, GammasLevel Scheme

Intensities: Relative photon branching from each level



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