Adopted Levels, Gammas

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	K. Kitao, Y. Tendow and A. Hashizume	NDS 96,241 (2002)	1-Dec-2001

Q(β^-)=8306 6; S(n)=5077 16; S(p)=11532 10; Q(α)=-7.34×10^3 7 2012Wa38
Note: Current evaluation has used the following Q record 8325   715.16E3 1210914 syst-7012 syst   1995Au04.
The uncertainties given by 1995Au04 for S(p) and Q(α) are 307 and 508 keV, respectively.

^{120}Ag Levels

Cross Reference (XREF) Flags

A	^{120}Pd β^- decay
B	^{120}Ag IT decay (0.32 s)

E(level)[†]	J$^\pi$	T$_{1/2}$	XREF	Comments
0.0	3$^{(+)}$	1.23 s 4	AB	%β^-=100; %β^-n<0.003 (1983Re05)
				J$^\pi$: log ft values to 2$^+$ and 4$^+$ allow J=3, syst of spin and parity for g.s. in even-Ag isotopes.
				T$_{1/2}$: weighted average of 1.17 s 5 (1971Fo22) and 1.25 s 3 (1983Re05).
52.50 20	$(+)$		A	J$^\pi$: mult(52.50γ) Ne E1.
203.0 10	6$^{(-)}$	0.32 s 4	B	%$\beta^-\approx$63; %IT$\approx$37 (1971Fo22)
				J$^\pi$: E3 γ to 3$^{(+)}$.
				T$_{1/2}$: from 1971Fo22.
210.6 3			A	
300.4 5	(1^+)		A	J$^\pi$: strong β^- feeding from 0$^+$.
805.8 5	(1^+)		A	J$^\pi$: strong β^- feeding from 0$^+$.

[†] From a least-squares fit to the adopted E(γ's) by the evaluators.

$\gamma(^{120}$Ag)

E$_i$(level)	J$^\pi_i$	E$_\gamma$[†]	I$_\gamma$	E$_f$	J$^\pi_f$	Mult.	α[‡]	Comments
52.50	$(^+)$	52.5 2	100	0.0	3$^{(+)}$			Mult.: Ne E1 from intensity balance at the 52.5-keV level.
203.0	6$^{(-)}$	203 1	100	0.0	3$^{(+)}$	E3	0.605 18	B(E3)(W.u.)$\approx$0.072
								E$_\gamma$,Mult.: from ^{120}Ag IT decay.
210.6		158.1 2	100	52.50	$(^+)$			
300.4	(1^+)	89.8 3	100	210.6		D		Mult.: from intensity balance at the 210-keV level.
805.8	(1^+)	595.2 4	100	210.6				

[†] From ^{120}Pd β^- decay, unless otherwise noted.
[‡] 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

$^{120}_{47}\text{Ag}_{73}$