

^{120}Pd β^- decay 1993Ja03

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

Parent: ^{120}Pd : E=0.0; $J^\pi=0^+$; $T_{1/2}=0.5$ s I ; $Q(\beta^-)=4880$ SY; % β^- decay=100.0

1993Ja03: ^{238}U (p,F) E(p)=20 MeV, on-line mass separation; γ , K x ray, ce, β ; $\gamma\gamma$, γX coin, ceX coin, X $\beta\gamma$ coin.

The decay scheme is that proposed by 1993Ja03 as a partial one. 1993Ja03 suggested both levels at 300 and 806 keV to be fed by the Gamow-Teller transitions.

 ^{120}Ag Levels

E(level) [†]	J^π [‡]	$T_{1/2}$
0.0	$3^{(+)}$	1.23 s 4
52.50 20	(⁺)	
210.6 3		
300.4 5	(1 ⁺)	
805.8 5	(1 ⁺)	

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

[‡] From Adopted Levels.

 $\gamma(^{120}\text{Ag})$

E_γ	I_γ ^{†#}	E_i (level)	J_i^π	E_f	J_f^π
52.5 2	39 3	52.50	(⁺)	0.0	$3^{(+)}$
^x 68.9 [‡] 2	36 8				
89.8 [‡] 3	73 10	300.4	(1 ⁺)	210.6	
^x 101.7 [‡] 3	54 10				
158.1 2	100 8	210.6		52.50	(⁺)
595.2 [‡] 4	\approx 37	805.8	(1 ⁺)	210.6	

[†] Relative to $I(158\gamma)=100$.

[‡] Overlap with γ 's from impurities. Intensity deduced from coincidence spectrum.

Absolute intensity per 100 decays.

^x γ ray not placed in level scheme.

