

^{99}Cd β^+ decay 1980Ka05

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	E. Browne, J. K. Tuli		NDS 145, 25 (2017)	1-Jul-2017

Parent: ^{99}Cd : $E=0.0$; $J^\pi=(5/2^+)$; $T_{1/2}=16$ s 3; $Q(\beta^+)=6781$ 7; $\%\beta^+$ decay=100.0
Tentative decay scheme based on energy sum relations.

 ^{99}Ag Levels

E(level)	J^π [†]	$T_{1/2}$ [†]	Comments
0.0	(9/2) ⁺	124 s 3	$\%\epsilon+\%\beta^+=100$
342.3 7	(7/2 ⁺)		
505.9 13	(1/2 ⁻)	10.5 s 5	
1014.2 8			
1317.0 8			

[†] From Adopted Levels.

 $\gamma(^{99}\text{Ag})$

E_γ	I_γ	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Mult. [†]	$\alpha^{\dagger\ddagger}$	Comments
163.6	11	505.9	(1/2 ⁻)	342.3	(7/2 ⁺)	E3	1.529	$\alpha(\text{K})= 1.042$; $\alpha(\text{L})= 0.403$; $\alpha(\text{M})= 0.0802$; $\alpha(\text{N}+..)=0.01460$ $\alpha(\text{K})_{\text{exp}}=3.8$ 20 $\alpha(\text{K})=1.036$ 15; $\alpha(\text{L})=0.399$ 6; $\alpha(\text{M})=0.0800$ 12 $\alpha(\text{N})=0.01276$ 18; $\alpha(\text{O})=0.0001518$ 22
342.9	100	342.3	(7/2 ⁺)	0.0	(9/2) ⁺			
^x 559.0								
^x 563.2								
^x 656.9								
^x 671.8	31							
671.8	31	1014.2		342.3	(7/2 ⁺)			
^x 783.5	8							
^x 832.2	6							
^x 899.7	6							
975.4	11	1317.0		342.3	(7/2 ⁺)			
^x 1007.5	5							
1014.3	10	1014.2		0.0	(9/2) ⁺			
^x 1216.1								
1316.3	8	1317.0		0.0	(9/2) ⁺			
^x 1470.4	11							
^x 1583.3	28							
^x 1746.6	6							
^x 1936.0	7							
^x 2388.7								
^x 2754.3	3							
^x 2948.5								

[†] From adopted gammas.

[‡] [Additional information 1.](#)

^x γ ray not placed in level scheme.

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Decay Scheme

Intensities: Relative I_γ

Legend

- $I_\gamma < 2\% \times I_\gamma^{max}$
- $I_\gamma < 10\% \times I_\gamma^{max}$
- $I_\gamma > 10\% \times I_\gamma^{max}$

