^{39}K(n,$\alpha\gamma$) 1967Ba05

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Ninel Nica, John Cameron and Balraj Singh	NDS 113, 1 (2012)	31-Dec-2011

$J^\pi(^{39}K)=3/2^+$.

1967Ba05: E=4-8 MeV, measured σ(E(α),E(γ),θ), α-γ coin; deduced levels, branching, δ and J values.

Other: 1963Ba07.

^{36}Cl Levels

E(level)	J^π	Comments
0.0	2^+	J^π: from Adopted Levels.
790 *5*	3^+	J^π: M1+E2 γ to 2^+, g.s. and σ(E(γ)) (1967Ba05).
1160 *5*		
1600 *10*		
1950 *10*		doublet.
2510 *20*		

$\gamma(^{36}Cl)$

E_γ	E_i(level)	J_i^π	E_f	J_f^π	Mult.	δ	Comments
790	790	3^+	0.0	2^+	M1+E2	−0.5 *1*	Mult.,δ: or −5.5 *25* from angular distribution (1967Ba05).
790	1950		1160				
1160	1160		0.0	2^+			
1160	1950		790	3^+			
1600	1600		0.0	2^+			
1720	2510		790	3^+			
1950	1950		0.0	2^+			

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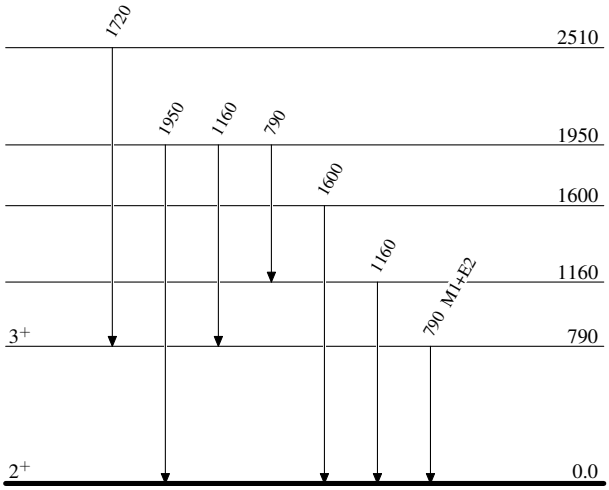
Level Scheme



$^{36}_{17}Cl_{19}$