

$^2\text{H}(^{35}\text{Cl},n\gamma)$ 1976Co02

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

$E(\varepsilon\text{L})=60$ MeV, N- γ coincidences; measured $E(\gamma)$, $I(\gamma)$, RDM also: 1973Wa10, $E(\varepsilon\text{L})=57.4$ MeV;

 ^{36}Ar Levels

E(level)	J^π	$T_{1/2}$	Comments
0.0	0^+		
1970.16 25	2^+		
4178.2 3	3^-	2.8 ps 6	$T_{1/2}$: mean lifetime τ In ps: 4.1 9 (1976Co02),>3 (1973Wa10).
4414.4 4			
4974.1 4		13.6 ps 21	$T_{1/2}$: mean lifetime τ In ps: 19.6 31 (1976Co02),>3 (1973Wa10).
5170.9 3		87 ps 14	$T_{1/2}$: mean lifetime τ In ps: 125 20 (1976Co02),>3 (1973Wa10).
6835			Additional information 1. E(level): doublet.

 $\gamma(^{36}\text{Ar})$

E_γ	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Comments
756.7 4	5170.9		4414.4		
795.9 2	4974.1		4178.2	3^-	
992.8 3	5170.9		4178.2	3^-	
1664.6 5	6835		5170.9		E_γ : superposition of two γ 's.
1970.2 3	1970.16	2^+	0.0	0^+	
2208.0 2	4178.2	3^-	1970.16	2^+	
2444.3 4	4414.4		1970.16	2^+	
2657.0 10	6835		4178.2	3^-	E_γ : superposition of two γ 's.
4178.7 7	4178.2	3^-	0.0	0^+	

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Level Scheme

