

$^{37}\text{Cl}(\gamma, n)$ 1997Is02

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

1997Is02, 1994Is10: $E\gamma^{\max}=30$ MeV, deduced $\sigma(E_n)$, C²S.

 ^{36}Cl Levels

E(level) [†]	J ^π [†]	C ² S	Comments
0.0	2 ⁺	1.0 1	C ² S: for 1d _{3/2} .
790	3 ⁺	1.5 2	C ² S: for 1d _{3/2} .
1160	1 ⁺	0.10 5	C ² S: for 2s _{1/2} ; 0.34 6 for 1d _{3/2} .
1600	1 ⁺	0.18 10	C ² S: for 2s _{1/2} ; 0.19 9 for 1d _{3/2} .
1960	2 ⁺	0.29 19	C ² S: for 2s _{1/2} ; 0.31 12 for 1d _{3/2} .
2490	2 ⁺	0.26 13	C ² S: for 2s _{1/2} ; 0.20 6 for 1d _{3/2} .
2520	5 ⁺	(0.05)	C ² S: for 1f _{7/2} .
2680	1 ⁺	0.065 5	C ² S: for 2s _{1/2} ; 0.37 9 for 1d _{3/2} .
2810	4 ⁻	(0.05)	C ² S: for 1f _{7/2} .
2860	3 ⁺	0.43 5	C ² S: for 1d _{3/2} .
2900	3 ⁻		
2990	(1,2) ⁻	<(0.01)	C ² S: for 2p _{3/2} ; (0.01) FOR 1f _{7/2} .
3470	(1,2) ⁺	0.09 7	C ² S: for 2s _{1/2} ; 0.06 2 FOR 1d _{3/2} .
3630	1 ⁻		
4030	(0,1,2) ⁻	<0.01	C ² S: for 2p _{3/2} .
4300	0 ⁺	0.22 8	C ² S: for 1d _{3/2} .
5730	(2,3) ⁻	0.09	C ² S: for 1f _{7/2} .
6380	(1,2) ⁺	0.18	C ² S: for 1d _{3/2} .
6490	(1,2,3) ⁻	0.15	C ² S: for 1f _{7/2} .
6770	(0 to 4) ⁺	0.31	C ² S: for 1d _{3/2} .
6830	(0 to 4) ⁺	0.36	C ² S: for 1d _{3/2} .
7080	(0 to 3) ⁺	0.22	C ² S: for 1d _{3/2} .
7560	(1,2) ⁺	0.18	C ² S: for 2s _{1/2} .

[†] E(level) (rounded-off) and J^π values quoted by 1997Is02 from 1990En08.