

$^{35}\text{Cl(d,p)}$ 1988Pi07

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

$J^\pi(^{35}\text{Cl g.s.})=3/2^+$.

1988Pi07: E=12.3 MeV; measured $\sigma(\theta)$, did DWBA analysis, and deduced L and S values.

Others: 1962Ho04 (7 MeV); 1971De21 (7 MeV).

 $^{36}\text{Cl Levels}$

E(level) [†]	L [†]	(2J+1)S [†]	Comments
0.0	0+2	5.89	(2J+1)S: for L=2, 0.19 for L=0.
788.3 5	2	2.23	
1165.1 3	0+2	0.94	(2J+1)S: for L=2, 0.34 for L=0.
1601.4 10	0	0.22	
1951.2 5	1+3	3.99	(2J+1)S: for L=3, 0.30 for L=1.
1959.2 3	0	0.39	
2467.9 4	1+3	4.58	(2J+1)S: for L=3, 0.90 for L=1.
2492.3 5	0+2	0.30	(2J+1)S: for L=2, 0.12 for L=0.
2518.47 14	3	10.17	
2676.0 11	1		L: from 1971De21.
2810.95 19	3	4.08	
2863.6 8	2	0.95	L: 3 (1962Ho04).
2896.45 9	1+3	2.05	(2J+1)S: for L=3, 1.45 for L=1.
2994.86 14	1	0.90	
3099.8 4	3	1.46	L: 1+3 (1962Ho04).
3207.35 20	1	0.53	
3332.29 7	1	1.86	
3469.1 13	1		L: 1962Ho04.
3600.2 13	1	0.08	
3634.99 15	1	0.43	
3663.0 14			
3723.4 4	3	1.12	
3825.9 17			
3962.63 11	1	0.55	
3992.06 8	1	0.94	
4031.98 9	1	0.78	
4060.5 8	1	0.09	
4138.80 18	1	0.34	
4262.0 18			
4293.0 18			
4315.66 17	1	0.37	
4405.6 15			
4496.31 12	1	0.89	
4551.7 6	0+2	0.33	(2J+1)S: for L=2, 0.03 for L=0.
4598.56 9	1	0.70	
4724.1 15	3		
4753.8 3	1+3	0.44	(2J+1)S: for L=3, 0.15 for L=1.
4823.7 15			
4846.7 15			
4876.7 15			
4884.0 9			
4956.5 3	1	0.25	
4997.82 16	1+3	1.10	(2J+1)S: for L=3, 0.24 for L=1.
5079.2 5	1	0.11	
5150.4 5	1	0.14	
5204.85 20	1	0.53	
5263.12 10	1	0.56	

Continued on next page (footnotes at end of table)

$^{35}\text{Cl}(\text{d,p})$ **1988Pi07** (continued) ^{36}Cl Levels (continued)

E(level) [†]	L [†]	(2J+1)S [†]	Comments
5308.12 11	1	0.55	
5332.5 15			
5369.8? 15			
5463.43 8	1	0.78	
5512.8 15			
5545.0 15			
5578.31 22	1+3	0.75	(2J+1)S: for L=3, 0.11 for L=1 L,S\$or L=0 s=0.01, L=2 s=0.69.
5619.23 9	1	0.66	
5694.42 21	1	0.17	
5701 8	1		from 1962Ho04.
5731 8	1		from 1962Ho04.
5766 8	1		from 1962Ho04.
5831.9 4	1	0.11	
5866.6 15			
5898.48 10	1	0.53	
5912.01 11	1	0.41	
5947.6 15	1		
5967.6 15			
6027 8			E(level): 6032 8 from 1962Ho04 adjusted by evaluators.
6051.1 3	1	0.16	
6084.84 8	1+3	0.91	(2J+1)S: for L=1, 0.82 for L=3.
6150 8	1		E(level): 6155 8 from 1962Ho04 adjusted by evaluators. L: from 1962Ho04.
6236.4 5	1+3	0.67	(2J+1)S: for L=3, 0.10 for L=1.
6253.58 13	1+3	0.45	(2J+1)S: for L=3, 0.27 for L=1.
6268.3 8			
6340.4 3	1	0.17	
6440 8	1		E(level): 6445 8 from 1962Ho04 adjusted by evaluators. L: from 1962Ho04.
6469 8			E(level): 6032 8 from 1962Ho04 adjusted by evaluators.
6504.6 5	1+3	0.38	(2J+1)S: for L=1, 0.34 for L=3.
6528.4 5			
6539.8 15			
6576.7 5	1	0.14	
6595.2 8			
6604.6 6			
6673.13 15	1+3	0.38	(2J+1)S: for L=3, 0.21 for L=1.
6950.0 7			
6997.14 21	1	0.20	

[†] From 1988Pi07, unless noted otherwise.