

$^{37}\text{Cl}(d, ^3\text{He})$ 1970Gr02

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

$J^\pi(^{37}\text{Cl g.s.})=3/2^+$.

$E(d)=28.9$ MeV, enriched ^{37}Cl target; measured $Q, \sigma(E(^3\text{He}), \theta)$ deduced levels L, J^π, C^2S . See also 1968Gr04 from the same group.

1969Pu03: $^{37}\text{Cl}(d, ^3\text{He}) E=23.35$ MeV.

Other: 1962Cu07 ($E=23.35$ MeV).

1974Cl09 made an absolute normalization of spectroscopic factors.

 ^{36}S Levels

<u>E(level)[†]</u>	<u>J^π[‡]</u>	<u>L</u>	<u>C^2S</u>
0	0^+	2	1.06
3295 10	$(1,2)^+$	0	0.86
3360?	0^+		<0.10
4523 10	$(1,2)^+$	0	0.75
4577 10	$(1,2)^+$	0	0.25
6511 15	$(1 \text{ to } 4)^+$	2	0.19
7120 20	$(1 \text{ to } 4)^+$	2	0.44
7710 25			

[†] Where ΔE is not listed, the level was not observed and only an upper limit is given for C^2S . 2000, 2885 levels are omitted here.

[‡] From Adopted Levels.