

$^{37}\text{Cl}(t,p)$ 1973Wa02

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Jun Chen	NDS 149, 1 (2018)	1-Jan-2018

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

1973Wa02: E=3.4 MeV; measured proton spectrum. FWHM=120 keV.

1984An03: E=3.301 MeV. Measured $\sigma(\theta)$, deduced Q value from 2590 group.

All data are from 1973Wa02, unless otherwise noted.

 $^{39}\text{Cl Levels}$

E(level) [†]	J^π	Comments
0	3/2 ⁺	J^π : from Adopted Levels.
400		
1300		
1700 [‡]		
1720 [‡]		
1750 [‡]		
1790 [‡]		
2060		
2240		
2420 [#]		
2490 [#]		
2590 [#]		E(level): 1984An03 used this group (with energy=2585.8 20 from (t,py)) to determine Q value=5701.9 25.
2830		E(level): unresolved from ^{18}O g.s. peak.
3120		
3340?		
3530		
3910		
4050?		
4350		
4830?		

[†] From proton spectrum figure 1 of 1973Wa02.

[‡] 1700+1720+1750+1790 form an unresolved group.

[#] 2420+2490+2590 form an unresolved group together with ^{14}C g.s. peak.