

$^{34}\text{S}(\text{p},\text{n})$ [1987Fu11](#),[1997Jo08](#),[2002Or05](#)

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Ninel Nica, Balraj Singh		NDS 113, 1563 (2012)	28-May-2012

[1987Fu11](#): E=35 MeV, target of 94.4%-enriched ^{34}S on carbon covered with gold. Measured angular distributions, DWBA.

[1997Jo08](#): same As [1987Fu11](#) with improved DWBA fit of neutrons to ^{34}Cl 0^+ g.s..

[2002Or05](#): E=35 MeV. Used time-of-flight technique and ten organic liquid scintillator detectors. Extract Gamow-Teller matrix element B(GT) from (p,n) cross section for the $0^+ \rightarrow 1^+$ excitation.

All references are interrelated.

 ^{34}Cl Levels

E(level) [†]	J ^π [‡]	Comments
0.0	0^+	IAS of ^{34}S g.s. observed by 1987Fu11 , 1997Jo08 .
461	1^+	
666	1^+	
1230	2^+	
1890	2^+	
2581	1^+	B(GT)=1.30 7 (2002Or05).
3128	1^+	
3380	2^+	E(level): unresolved 4971+4996 doublet.
4985	$1^+, 2^+$	

[†] From [1987Fu11](#).

[‡] From [1987Fu11](#) (based on DWBA calculations which depend on different $\Delta J(\Delta L, \Delta S)$ combinations).