$^{32}\text{S}(^3\text{He,n})$ **1986Al15**

History

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

1986Al15: E=25.4 MeV, measured $\sigma(\theta)$, time-of-flight, DWBA analysis. FWHM=350 keV for the most energetic neutrons. Comparisons made between analog levels of ^{34}Ar and ^{34}S up to 5930 keV.

Others:

1972Bb01: E=14 MeV. Measured $\sigma(\theta)$, DWBA analysis for g.s.

1972Ca22: E=8.5 MeV, measured neutron spectrum by time-of-flight and NE213 scintillation detector. Groups seen at 2090, 3290 and 4510 keV, the last being the most intense.

1968Ha09: E=4.5-6.2 MeV, measured neutron spectra by time-of-flight method. Five excited states reported at 2.10, 3.30, 3.90, 4.05 and 4.15 MeV.

1967Mi02: E=10-12 MeV, measured neutron energies, deduced Q value. The g.s. and a level at 2058 *35* reported.

1967Mc03: E=4.9-5.6 MeV. Measured $\sigma(\theta)$ for neutrons. Three groups reported at 0, 2190 *40* and 3590 *60* keV.

Additional information 1.

^{34}Ar Levels

E(level)[†]	L[†]	ε[#]	Comments
0	0	1.4	σ(exp)/σ(theory)=0.96, 1.12 (1972Bb01).
2090 *30*	2	3.9	Additional information 2.
3290 *30*	(2)	0.32	Additional information 3.
3900 *70*	(0)	6.1	Additional information 4.
4050[‡] *30*			
4150[‡] *30*			
4510 *30*	3	2.9	
4950 *50*	0	25	
5310 *30*	(5)	0.38	
5620 *30*	2	18	
5930 *50*	0		
6470 *30*			
6820 *40*			
6990 *50*			
7300 *30*			

[†] From 1986Al15, unless otherwise stated.
[‡] From 1968Ha09 only.
[#] ε=enhancement factor=[(dσ/dω)(exp)]/[213(dσ/dω)(DWBA)].