

$^{34}\text{S}(\text{d},\text{n})$ 1969Da12

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Jun Chen, John Cameron and Balraj Singh		NDS 112,2715 (2011)	20-Oct-2011

1969Da12: E=4.95 MeV deuteron beam of 2 μA produced from the University of Alberta 5.5-MeV Van de Graaff accelerator. A CdS target enriched to 37% ^{34}S evaporated onto a 0.05-cm gold backing. Neutron energy measured by time-of-flight (TOF), FWHM=1.0 nsec. Measured $\sigma(E_n, \theta)$. Deduced levels, J, L from the DWBA analysis.

 ^{35}Cl Levels

Target ^{34}S $J^\pi=0^+$.

E(level)	J^π [†]	L [‡]	Comments
0	$3/2^+$	2	
1220	$1/2^+$	0	
1762	$5/2^+$	2	L: L=1 also fits but is excluded by J^π .
2645		(1)	L: weak stripping or possibly two unresolved levels.
2695			
3006	$5/2^-$	3	
3163	$7/2^-$	3	
4060			
4110			
4170			

[†] From Adopted Levels.

[‡] Extracted from the comparison of $\sigma(\theta)$ distributions with the DWBA predictions.