

$^{42}\text{Ca}(\alpha, \text{p})$ 1970Gi10

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	T. W. Burrows	NDS 109, 171 (2008)	30-Oct-2007

E=31 MeV. Measured $\sigma(\theta=20^\circ-90^\circ, 5^\circ \text{ steps})$. FWHM \approx 150 keV. DWBA. Other: see [1992Bu01](#).

 ^{45}Sc Levels

E(level)	J $^\pi$ [†]	L ‡	Comments
0.0	(7/2) ⁻	3	
370	3/2 ⁻	1	
1050	(7/2) ⁻	3	J $^\pi$: 3/2 ⁻ adopted by evaluator.
2960	3/2 ⁻	1	
3450	(5/2) ⁻	3	
3890	(3/2 ⁻)	(1)	

[†] From empirical J dependence. This is convincing for L=1 transitions; less so for L=3 (evaluator).

[‡] From DWBA analysis.