^{46}Ca(α,p) E=25 MeV 1983El08

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	T. W. Burrows[a]	NDS 109, 1879 (2008)	14-Jul-2008

Measured $\sigma(\theta)$. θ=5°−57.5° In 7.5° steps. FWHM≈50 keV. DWBA.

States At 2.23, 2.37, 3.52, 3.81, 3.99, 4.34, 5.01, 5.38, 5.66, and 5.81 MeV were looked for but not observed (σ(max)<3-10 microb/Sr). ΔE(level)=20; uncertainty In σ=20%.

Evaluator's Note: above 5 MeV the known density of states is such that the angular distributions measured by 1983El08 May correspond to unresolved states.

^{49}Sc Levels

E(level)	Comments
0.	
3087 *20*	
3921 *20*	
4075 *20*	
4491 *20*	
4608 *20*	
4755 *20*	
5105 *20*	
5171 *20*	possible candidate for a pairing-vibrational state. $\sigma(\theta)$ resembles that for the ^{51}Sc g.s. but not that for the ^{49}Sc g.s.
6024 *20*	
6845 *20*	