^{40}Ca(α,t) 1970Yo01

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	C. D. Nesaraja, E. A. Mccutchan	NDS 133, 1 (2016)	30-Sep-2015

1970Yo01: E(α)=40 MeV. Measured $\sigma(\theta)$ using ΔE-E surface barrier semi-conductor detector telescope (FWHM=60-80 keV); DWBA analysis.
1982FoZU: E(α)=28 MeV. Measured $\sigma(\theta)$; CCBA analysis.
Others:
1969Ga11: E(α)=56 MeV. Measured $\sigma(\theta)$ for g.s.
1972Ha08 (also 1971Ha49): E(α)=104 MeV. Measured $\sigma(\theta)$ for g.s.

^{41}Sc Levels

E(level)[†]	L[‡]	(2J+1)S[@]	E(level)[†]	E(level)[†]
0	3	8.88	3356 *20*	4038[#]
1717 *20*	1	3.66	3703[#]	4502 *30*
2077 *20*	2		3788[#]	5025 *20*
2400 *20*			3823[#]	5568 *30*
2895 *20*	(3,4)	0.47,0.13	3905 *20*	
3174 *20*			4005 *20*	

[†] From 1970Yo01, except where noted.
[‡] From DWBA analysis (1970Yo01).
[#] From 1982FoZU.
[@] From $(d\sigma/d\Omega)_{exp}=NS(2J+1)(d\sigma/d\Omega)_{DWBA}$ with N=1.8.