^{44}Ca(α,2α) 1976Sh02

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Jun Chen	NDS 140, 1 (2017)	30-Sep-2015

1976Sh02: E=90 MeV alpha beam was produced from the Berkeley 88 in. cyclotron. Target was 420 μg/cm^2 ^{44}Ca (98.5% purity). Reaction products were detected by two telescopes of a 250−μm phosphorus diffused Si detector and a 3-mm Si(Li) detector (FWHM=250-300 keV). Measured $\sigma(\theta)$. Deduced levels, spectroscopic from DWIA and PWIA analysis.

^{40}Ar Levels

E(level)	Integrated σ (mb/sr^2)	Comments
0	0.58 *12*	spectroscopic factor=0.24 *9* from PWIA analysis, 0.53 *9* from DWIA analysis (1976Sh02).
1440 *50*	0.027 *32*	
2090 *90*	0.052 *34*	
4000† *40*	0.080 *44*	
5750† *70*	0.026 *25*	

† Composite of several levels.