^{42}Ca(^{13}C,^{14}N) 1976Bo01

History

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

1976Bo01: E(^{13}C)=68 MeV. Measured $\sigma(\theta)$ for ground state using two silicon-surface barrier ΔE-E telescopes separated by 15° and with ≈0.2° angular resolution; DWBA analysis.

^{41}K Levels

E(level)	L	Comments
0	1	L: L=1 dominates (1976Bo01) but DWBA code LOLA fits the $\sigma(\theta)$ distribution poorly, in particular the experimental oscillations are out of phase with the predicted angular shape. Analysis of $\sigma(\theta)$ distribution of 1976Bo01 by 1977Fu07 suggest that fit is improved by including spin-flip (helicity) contribution.