

$^{40}\text{Ca}(^{14}\text{C},^{13}\text{C})$ **1985Vi01,1981Ha23**

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

1985Vi01: E(^{14}C)=64 MeV from Los Alamos tandem electrostatic accelerator. Scattered ions detected with long gridded ionization counter (FWHM \approx 140 keV). Measured $\sigma(\theta)$. DWBA analysis (codes Ptolemy and ONEFF/DIWRI).

1981Ha23 (same group as **1985Vi01**): E(^{14}C)=51 MeV from Los Alamos tandem electrostatic accelerator. Scattered ions detected with long gridded ionization (FWHM \approx 60- 100 keV). DWBA analysis (code DWIS).

 ^{41}Ca Levels

E(level)	J $^{\pi}$ [†]	L ‡	C ² S [#]	Comments
0	7/2 ⁻	4+3	0.67	L: L=4 dominates DWBA (1981Ha23). C ² S: 0.74 (1981Ha23).
1940	3/2 ⁻	2+1	0.41 [@]	L: L=2 dominates DWBA (1981Ha23). C ² S: 0.52 (1981Ha23).
2460	3/2 ⁻	2+1	0.14 ^{&}	L: L=2 dominates DWBA (1981Ha23). C ² S: 0.15 (1981Ha23).

[†] From Adopted Levels.

[‡] From DWBA analysis (**1985Vi01,1981Ha23**).

[#] For assumed S(^{14}C)= 1.73 (**1985Vi01**), 1.95 (**1981Ha23**).

[@] Contribution from 2010, 3/2⁺ level considered to be negligible (**1985Vi05**).

[&] Contributions from 2575, 3/2⁻ and 2605, 5/2⁺ levels considered to be negligible (**1985Vi05**).