^{43}Ca(p,p′) 1957Br19

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh and Jun Chen[#]	NDS 126, 1 (2015)	31-Mar-2015

1957Br19: E=6.5, 7.0 MeV proton beam was produced from the MIT-ONR electrostatic generator. Target of enriched $CaCo_3$ (67.95% ^{43}Ca). Scattered protons were analyzed with a broad-range spectrograph. Measured $\sigma(E_p)$. Deduced levels.

1980Fa07: (p,p) E=35.2 MeV proton beam was produced from the Milan sector-focused cyclotron. Target of $CaCO_3$ enriched to 49.1% in ^{43}Ca. Scattered protons were detected by silicon surface-barrier detectors in rotatable counter telescopes. Measured $\sigma(E_p,\theta)$. Deduced deformation parameter.

All data are from 1957Br19 unless otherwise noted.

^{43}Ca Levels

E(level)[†]	E(level)[†]	E(level)[†]	E(level)[†]
0[#]	2046	2671	3093
371	2067	2694	3193
591	2093	2751	3278
990	2105?	2842	3292[‡]
1394	2223	2878?	3368?[‡]
1677	2248[‡]	2946	3397?[‡]
1903	2271?[‡]	3026	3418
1931	2407	3047	
1956	2604?	3073	

[†] Uncertainty is probably 5-10 keV (by evaluators).
[‡] Unresolved from impurities peaks from ^{40}Ca or ^{44}Ca.
[#] β_2(electromagnetic)=0.25 (1980Fa07).