^{43}Ca(p,t) 1977SeZR,1974Se04

History

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

J^π(^{43}Ca g.s.)=7/2$^-$.

1977SeZR (also 1974Se04): E(p)=42 MeV from the MSU cyclotron. Measurement was done with an Enge split-pole spectrometer equipped with a single-wire proportional counter. FWHM=22-35 keV. Measured $\sigma(\theta)$ and cross sections to 7/2$^-$ levels and compared to 0$^+$ levels of ^{40}Ca from ^{42}Ca(p,t).

^{41}Ca Levels

E(level)[†]	J^π	L[†]	Comments
0	7/2$^-$	0	
1940		2	
2010		3+5	
2460		2+4	
2570		2	E(level): 2580 (quoted in 1978En02).
2610		1+3	
2670		3	
2880		3	
2958	7/2$^-$	0	Integrated cross section is about 9% of that for g.s. (1974Se04). J^π: From 1974Se04.
3050			L: 2 (quoted in 1978En02, but none in 1990En08).
3200		3	
3370		3	
3400		3	
3530		3	
3614[‡]		3	L: for 3613+3614.
3680		2	
3730[‡]		3	L: for 3730+3740.
3830		5	
3910		3+5	
4010		2	
4090		3	
4280		2	
4340		2	
4520		5	
4730[‡]		3	L: for 4728+4731.
4970		3(+5)	
5050[‡]		2	L: for 5050+5070.
5120			L: 2 (quoted in 1978En02, but none in 1990En08).
5220		5	
5350		0	
5820		3+5	
5960		3	
6040[‡]		3	L: for 6040+6070.
6820		3	
7150		0	

[†] Data given here are taken from the evaluation by 1990En08, based on experiments of 1977SeZR (also 1974Se04).
[‡] Doublet.