^{40}Ca(p,pα),(P,P′α) 1984Ca09,1976Ba38

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Ninel Nica, John Cameron and Balraj Singh	NDS 113, 1 (2012)	31-Dec-2011

1984Ca09, 1981Ca02, 1981Na03: E=101.5 MeV, measured P-α, σ(E(p),θ(P),θ(α)), deduced spectroscopic factors, and did DWIA calculations.

1976Ba38: E=157 MeV, measured σ(E(α),E(p),θ) and deduced spectroscopic factors.

Others (of which most are dealing with giant resonances): 2001Ca23, 2001Sc25, 2001Vo09, 1999St12, 1998Ca11, 1994Vo05, 1978La11, 1973Ba01.

^{36}Ar Levels

E(level)	J$^{\pi}$	S[†]	Comments
0.0	0$^+$	0.86 *9*	S: 0.50 *7* (1976Ba38).
1970	2$^+$	5.9 *8*	S: 0.9 *4* (1976Ba38).
4400	4$^+$	26.0 *9*	E(level): unresolved multiplet.

[†] Absolute spectroscopic factors from 1984Ca09, unless noted otherwise.