

$^{40}\text{Ca}(\text{p},\pi^+),(\text{pol p},\pi^+)$ 1974Da23,1979Ho09,1981Sj02

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

1981Sj02: (pol p, π^+), E(pol p)= 147-159 MeV from Indiana Cyclotron University Facility. Detected pions with magnetic spectrometer and detector telescope. Measured $\sigma(\theta)$, $A_y(\theta)$. DWBA analysis.

1979Ho09: (p, π^+), E(p)= 163-186 MeV. Detected pions with hodoscope and scintillation counters (FWHM= 0.7-1.3 keV). Measured $\sigma(\theta)$ and for g.s. PWBA and DWBA analysis.

1979Pi06 (also 1979PiZU): (p, π^+), E(p)= 140-200 MeV from Indiana Cyclotron University Facility. Detected pions with DD spectrometer. Measured $\sigma(\theta)$.

1976Le05 (also 1975Le25): (p, π^+), E(p)= 149-154 MeV from Orsay IPN synchrocyclotron. Detected pions with magnetic spectrometer and three-scintillator hodoscopes (FWHM=1.5 MeV). Measured $\sigma(\theta)$ for g.s.

1974Da23: (p, π^+), E(p)= 185 MeV from synchrocyclotron. Detected pions with magnetic spectrometer and scintillation counters (FWHM=550 keV). Measured $\sigma(\theta)$ for g.s. and energy spectrum of π^+ .

1979Ma39: (p, π^+), E(p) \approx 8 and 16 MeV. Measured σ .

 ^{41}Ca Levels

E(level)	$J^{\pi\ddagger}$
0	$7/2^-$
1940 †	$3/2^-$
2010 †	$3/2^+$

† Unresolved doublet (1974Da23).

‡ From Adopted Levels.