

$^{40}\text{Ca}(\text{p},\text{p}\alpha),(\text{p},2\text{p})$:resonances [2001Sc25](#)

<u>Type</u>	<u>Author</u>	<u>History Citation</u>	<u>Literature Cutoff Date</u>
Full Evaluation	Jun Chen	NDS 140, 1 (2017)	30-Sep-2015

[2001Sc25](#): E=100 MeV. Measured $\sigma(\theta)$, DWBA analysis.

[1994Vo05](#): (p,p' α) E=99.1 MeV, deduced electric giant resonances.

[1981Na03](#): (p,p α) E=101.3 MeV. Measured $\sigma(\theta)$. DWIA analysis.

[1981Ca02](#): (p,p α) E=101.5 MeV. Measured $\sigma(\theta)$. DWIA analysis.

[1976Ba38](#): (p,p α) E=157 MeV. Measured $\sigma(\theta)$.

[1969Ja12](#): (p,2p) E=385 MeV.

[1964Ru05](#): (p,2p) E=150 MeV.

 ^{40}Ca Levels

<u>E(level)</u>	<u>Comments</u>
11700	E(level): resonance in (p,p'p) to ^{39}K g.s. from a broad peak at 10.9-12.5 MeV, FWHM=800 (2001Sc25).
12300	E(level): resonance in (p,p'a) to ^{36}Ar g.s. from a broad peak at 12.0-12.6 MeV, FWHM=300 (2001Sc25).