$^{12}C(\pi^+,\pi^+p)$ 1978Mo01,1980Aj01

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	J. H. Kelley, C. G. Sheu	NP A880,88 (2012)	1-Jan-2011

1974Gi08: $^{12}C(\pi^+,\pi^+p)$ E=60, 112 MeV, measured $\sigma(\theta)$, $\sigma(E_P,\theta)$.
1977Be35: $^{12}C(\pi^+,\pi^+p)$ E=170 MeV, measured integral σ, $\sigma(E_P,\theta)$. Deduced reaction mechanism.
1978Co02: $^{12}C(\pi^+,\pi^+p)$ E=100 MeV, measured σ, π^-P-coin.
1978Mo01: $^{12}C(\pi^+,X)$, (π^-,X), E≈180 MeV; measured $\sigma(E_{\pi^-})/\sigma(E_{\pi^+})$.
1979Zi05: $^{12}C(\pi^+,\pi^{+\prime}P)$ E=180 MeV, measured ratio of σ. PWIA analysis.
1980Bu07: $^{12}C(\pi^+,\pi^+p)$ E=291 MeV, measured $\sigma(\theta_{\pi^+},E_{\pi^+})$.
1981Pi05: $^{12}C(\pi^+,\pi^+p)$ E=245 MeV, measured $\sigma(\theta_\pi,\theta_P,E_P)$, $\sigma(\theta_\pi,\theta_P)$, $\sigma(\theta_{\pi^+})/\sigma(\theta_{\pi^-})$. Deduced consistency with quasifree scattering.
1981Zi01: $^{12}C(\pi^+,\pi^+p)$ E=130-200 MeV, measured $\sigma(\theta_\pi,\theta P)$ vs scattered pion momentum.
1984Fa11: $^{12}C(\pi^+,\pi^+p)$ E=220 MeV, measured $\sigma(\theta_\pi,E_\pi)$, $\sigma(\theta_\pi,\theta_P,E_P)$, $\sigma(\theta_\pi,\theta_P,E_\pi)$, $\sigma(\theta_\pi,\theta_P)$, $\sigma(\theta_\pi,\theta_P)$ vs missing mass. Deduced reaction mechanism.
1984Tr09: $^{12}C(\pi^+,\pi^+p)$ E≈resonance, measured $\sigma(\theta_P,\theta_\pi)$. Deduced isobar resonance role.
1986Mo26: $^{12}C(\pi^+,\pi^+p)$ E=250 MeV, measured $\sigma(\theta_\pi,\theta_P)$ vs pion momentum.
1987Hu02: $^{12}C(\pi^+,\pi^+p)$ E=130, 150 MeV, measured $\sigma(E_\pi,E_P,\theta\text{-}\pi)$. DWIA analysis.
1989Yo06: $^{12}C(\pi^+,\pi^{+\prime}P)$ E=180 MeV, measured $\sigma(\theta_\pi,\theta_P,E_\pi)$. Deduced $\sigma(\pi^+,\pi^+p)/\sigma(\pi^-,\pi^-p)$ near GDR. DWIA analysis.
1998Mo09: $^{12}C(\pi^+,\pi^+p)$ E=500 MeV, measured σ(DCX)/σ(NCX). Deduced nuclear wave function Δ+ components.

^{11}B Levels

E(level)	J^π
0	
2.12×10^3	
4.44×10^3	$5/2^-$