$^{12}C(\gamma,\pi^+)$ 1990So06

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	J. H. Kelley, J. E. Purcell and C. G. Sheu	NP A968, 71 (2017)	1-Jan-2017

1971Go22: $^{12}C(\gamma,\pi^+)$ E<500 MeV, measured σ, yield ratios.
1973Go44: $^{12}C(\gamma,\pi^+)$ E=250-1200 MeV, measured $\sigma(E,E_\pi)$.
1973Ub01: $^{12}C(\gamma,\pi^+)$ ^{12}B deduced levels.
1976Wa07: $^{12}C(\gamma,\pi^+)$ measured σ, π^-/π^+ yield ratios.
1977Ba60,1978Ba50: $^{12}C(\gamma,\pi^+)$ E=300-850 MeV, measured $\sigma(\theta)$.
1979Mi06: $^{12}C(\gamma,\pi^+)$ E=bremsstrahlung endpoint to 175 MeV, deduced $\sigma(E)$.
1980Al25: $^{12}C(\gamma,\pi^+)$ E=4.5 GeV bremsstrahlung, measured $\sigma(\theta)$.
1980Ar01: $^{12}C(\gamma,\pi^+)$ E=153-156 MeV bremsstrahlung, measured production σ relative to P target. Deduced No meson exchange effect. DWIA analysis.
1980Ra05: $^{12}C(\gamma,\pi^+)$ E≈threshold, analyzed σ. Deduced pion-nuclear interaction constant.
1982Ar06: $^{12}C(\gamma,\pi^+)$ E=200-390 MeV bremsstrahlung, measured $\sigma(\theta,E_\pi)$ vs. E. Deduced σ(total) for inclusive pion production, $\sigma(\pi^+)/\sigma(\pi^-)$ vs. E.
1982To10: $^{12}C(\gamma,\pi^+)$ E=400 MeV bremsstrahlung, measured $\sigma(\theta,E_\pi)$. Deduced nucleon level shift, Coloumb effects.
1983Sc11,1983Sc36,1985Sc17: $^{12}C(\gamma,\pi^+)$ E=183.8, 187.03-189.66 MeV, measured $\sigma(\theta)$.
1985To14: $^{12}C(\gamma,\pi^+)$ E=400 MeV, measured $\sigma(E_\pi)$. Deduced pion production mechanism.
1988Ka41: $^{12}C(\gamma,\pi^+)$ E≤1.18 GeV, compiled data, analysis.
1989Go03: $^{12}C(\gamma,\pi^+)$ E≈183 MeV, measured pion spectra.
1990So06: $^{12}C(\gamma,\pi^+)$ E=176-182 MeV, measured $\sigma(E_\pi,\theta_\pi)$. Deduced photopion production $\sigma(\theta)$. ^{12}B deduced levels.
1994Ch39,1994Ch43: $^{12}C(\gamma,\pi^+)$ E=191 MeV, measured $\sigma(E_\pi,\theta_\pi)$. Deduced photopion production $\sigma(\theta_\pi,\sigma(E_\pi))$. ^{12}B deduced levels.

^{12}B Levels

E(level)
0
0.95×10^3
1.67×10^3
$\approx4.5\times10^3$
$\approx7.5\times10^3$
$\approx10.\times10^3$
$\approx13.\times10^3$