^{12}C(π^+,p)   1978Am01,1981An10

History

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

1974Am01: ^{12}C(π^+,p) E=70 MeV, measured $\sigma(\theta)$.

1977Ja15: ^{12}C(π^+,p) E=160, 100, 200 MeV, measured proton yield.

1978Am01: ^{12}C(π^+,p) E=49.3 MeV, measured $\sigma(\theta)$.

1980Go16: ^{12}C(π^+,p) E=75 MeV, measured $\sigma(\theta,E_P)$. Deduced reaction mechanism.

1980Mc03: ^{12}C(π^+,p) E=100, 160, 220 MeV, measured inclusive production $\sigma(\theta)$.

1980Mc10: ^{12}C(π^+,p) E=220 MeV, analyzed $\sigma(\theta_P,E_P)$. Deduced possible common reaction mechanism via isobar production.

1980Th01: ^{12}C(π^+,p) E=180 MeV, measured $\sigma(E_P,\theta)$, $\sigma(E_d,\theta)$.

1981An10: ^{12}C(π^+,p) E=90, 170, 180 MeV, measured $\sigma(\theta_P,E_P)$. Deduced reaction mechanism.

1981Ka43: ^{12}C(π^+,p) E=400, 475 MeV, measured yields. Deduced two-nucleon pion absorption effects.

1981Mc02,1981Mc09: ^{12}C(π^+,p) E=100, 160, 220 MeV, measured $\sigma(\theta,E_P)$, inclusive pion yields.

1982Do01: ^{12}C(π^+,p) E=32-81 MeV, measured $\sigma(E_P)$, $\sigma(\theta)$. ^{11}C levels deduced L, relative two-nucleon pickup strength.

1985La20: ^{12}C(π^+,p) E=170 MeV, measured particle yields.

1991Ki02: ^{12}C(π^+,p) E At 450-570 MeV/c, measured $\sigma(E_P,\theta_P=0°)$. Deduced reaction mechanism, effective nucleon number, πN amplitude role.

J$^\pi$ from (1980Aj01).

$\underline{^{11}\text{C Levels}}$

E(level)	J$^\pi$	Comments
0	3/2$^-$	E(level): from (1978Am01).
2.0×10^3 2	1/2$^-$	E(level): from (1978Am01).
4.40×10^3 20	5/2$^-$	E(level): from (1978Am01).
		E(level): Unresolved.
4.8×10^3	3/2$^-$	E(level): Unresolved.
6.4×10^3 2	7/2$^-$	E(level): from (1978Am01).
8.5×10^3 2		E(level): from (1978Am01).
12.5×10^3 3		T=3/2
		E(level): from (1978Am01).
13.3×10^3		E(level): from (1981An10) who do not see the 12.5 MeV state observed by (1978Am01); also see (1982Do01).