^{12}C(e,e′p) 1976Mo17,1988Va21

History

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

1970Vy01: ^{12}C(e,e′p), E=100, 150, 200 MeV; measured $\sigma(E_P,\theta_P)$.
1971Eg02: ^{12}C(e,e′p), E=100-250 MeV; measured $\sigma(E)$.
1974Be12: ^{12}C(e,e′p), E=497 MeV; measured $\sigma(E_P)$,pe-coin. Deduced fit to Koltun sum rule.
1976Mo17: ^{12}C(e,e′p), E=497 MeV; measured σ, missing energy, recoil momentum.
1982Be02: ^{12}C(e,e′p), E=500 MeV; measured σ(missing energy, recoil momentum). Deduced proton-hole spectral functions.
1983Ho15: ^{12}C(e,e′p), E=21, 25, 35, 45, 55 MeV; measured $\sigma(\theta)$, $\sigma(\theta,E_P)$. Deduced ^{11}B production from electron-induced processes on ^{12}C In astrophysical sites.
1984Ca34: ^{12}C(e,e′p), E=86, 118, 126 MeV; measured $\sigma(E(e'),\theta(e'),\theta_P)$.
1984La34: ^{12}C(e,e′p), E≤190 MeV; measured spectral functions.
1985La12: ^{12}C(e,e′p), E not given; measured excitation energy spectra. ^{11}B deduced level, possible J, π.
1985Va05: ^{12}C(e,e′p), E=353 MeV; measured missing energy spectrum distribution. Deduced role of components beyond 1p shell.
1985Va16: ^{12}C(e,e′p), E=283 MeV; measured σ, deduced two-step processes contribution. ^{11}B level deduced spectral function.
1988Va09: ^{12}C(e,e′p), E=280-480 MeV; measured σ vs missing energy, momentum.
1988Va21: ^{12}C(e,e′p), E=280-480 MeV; measured σ(missing energy, missing momentum). ^{11}B levels deduced proton momentum distributions, spectroscopic factors, rms radii.
1990We06: ^{12}C(e,e′p), E not given; measured missing energy spectra. Deduced subshell spectroscopic factors.
1995Bl10: ^{12}C(e,e′p), E not given; measured distorted momentum distribution vs missing momentum. Deduced spectroscopic factor for transition to $^{11}B_{g.s.}$.

^{11}B Levels

E(level)	J^π	L	Comments
0		1	L from (1976Mo17).
2.1×10^3		1	L from (1976Mo17).
4.44×10^3	$5/2^-$		
5.0×10^3		1	L from (1976Mo17).
6726 *25*	$7/2^-$		E(level): from (1988Va21): unresolved doublet; values deduced by evaluating the low momentum data (presumed $1/2^+$) and the high momentum component (presumed $7/2^-$).
6777 *25*	$1/2^+$		E(level): from (1988Va21): unresolved doublet; values deduced by evaluating the low momentum data (presumed $1/2^+$) and the high momentum component (presumed $7/2^-$).
7278 *25*	$5/2^+$		E(level): from (1988Va21).
7954 *25*	$3/2^+$		E(level): from (1988Va21).
8.61×10^3 *50*	$3/2^-$		E(level): from (1988Va21).
9820 *25*	$1/2^+$	0	E(level): L: from (1988Va21).
11.5×10^3	$(1/2,3/2)^-$	1	E(level): L: from (1988Va21). Γ: broad (1988Va21).