

${}^{12}\text{C}({}^{12}\text{C}, {}^{12}\text{N})$ **1999Bo26,1994Ic03**

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

1985WiZZ: ${}^{12}\text{C}({}^{12}\text{C}, {}^{12}\text{N})$ E=35 MeV/nucleon, measured $\sigma(\theta)$. Deduced spin-isospin interaction strength. ${}^{12}\text{B}$ levels deduced relative population strength. DWBA analysis.

1986Ba16: ${}^{12}\text{C}({}^{12}\text{C}, {}^{12}\text{N})$ E=900 MeV/nucleon, measured particle spectra. Deduced isobar excitation.

1986Wi05: ${}^{12}\text{C}({}^{12}\text{C}, {}^{12}\text{N})$ E=420 MeV, measured $\sigma(\theta)$. Deduced reaction mechanism, spin-flip residual interaction component strength. ${}^{12}\text{B}$ deduced possible resonance. DWBA analysis.

1987El14: ${}^{12}\text{C}({}^{12}\text{C}, {}^{12}\text{N})$ E=0.9 GeV, measured $\sigma(\text{fragment } \theta, E)$.

1989Ga26: ${}^{12}\text{C}({}^{12}\text{C}, {}^{12}\text{N})$ E=420 MeV, compiled, analyzed data. Deduced precritical effects role, form factor radial dependence.

1991An12: ${}^{12}\text{C}({}^{12}\text{C}, {}^{12}\text{N})$ E=840 MeV, measured $\sigma(\theta)$. DWBA.

1993Bo03: ${}^{12}\text{C}({}^{12}\text{C}, {}^{12}\text{N})$ E=358.4 MeV, measured spectra, Q, $\sigma(\theta)$.

1994Ic01,1994Ic02,1994Ic03,1995Ic01,1995Ta30: ${}^{12}\text{C}({}^{12}\text{C}, {}^{12}\text{N})$ E=135 MeV/nucleon, measured $\sigma(\theta)$. Deduced model parameters, reaction mechanism, strong selectivity of $\Delta S=1$, $\Delta T=1$ transitions. ${}^{12}\text{B}$ levels deduced transfer L, spin dipole strength distribution, level J, π . DWBA analysis.

1999Bo26: ${}^{12}\text{C}({}^{12}\text{C}, {}^{12}\text{N})$ E=357 MeV, measured residual nuclei spectra.

 ${}^{12}\text{B}$ Levels

<u>E(level)[†]</u>	<u>E(level)[†]</u>	<u>E(level)[†]</u>	<u>E(level)[†]</u>
0	2.62×10^3	4.52×10^3 [‡]	8.14×10^3
0.95×10^3	3.39×10^3	5.6×10^3	10.5×10^3
1.67×10^3	4.46×10^3 [‡]	7.4×10^3 [#]	13.4×10^3

[†] From (1999Bo26), except where noted.

[‡] Unresolved (1999Bo26). $J^\pi=2^-, 4^-$ (1994Ic03,1995Ic01).

[#] Dominant $J^\pi=2^-$ with some additional 0^- and 1^- strength (1994Ic03,1995Ic01).