

$^{12}\text{C}(^{13}\text{C}, ^{13}\text{N})$ 1988Vo06,1989Be50,1987Ad07

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

1986Vo02: $^{12}\text{C}(^{13}\text{C}, ^{13}\text{N})$ E=30 MeV/nucleon, measured $\sigma(E(^{13}\text{N}))$, $\sigma(E(^{13}\text{B}))$. ^{12}B deduced GDR excitation.

1987Ad07: $^{12}\text{C}(^{13}\text{C}, ^{13}\text{N})$ E=390 MeV, measured $\sigma(\theta)$. Deduced reaction mechanism.

1988Vo06: $^{12}\text{C}(^{13}\text{C}, ^{13}\text{N})$ E=30 MeV/nucleon, measured σ .

1989Be50,1993Be19: $^{12}\text{C}(^{13}\text{C}, ^{13}\text{N})$ E=50 MeV/nucleon, measured $\sigma(\theta)$. ^{12}B deduced GDR IAS. DWBA.

1993Bo03,1999Bo26: $^{12}\text{C}(^{13}\text{C}, ^{13}\text{N})$ E=379.1 MeV, measured spectra, Q, $\sigma(\theta)$ In some cases.

1995Ic01: $^{12}\text{C}(^{13}\text{C}, ^{13}\text{N})$ E=100 MeV/nucleon, measured Q-value spectra, $\sigma(\theta)$. Deduced reaction mechanism, spin-flip, nonspin-flip excitation evidence.

 ^{12}B Levels

E(level)	Γ	Comments
$0^{\dagger\ddagger\#}$		
$0.95 \times 10^3 \dagger\ddagger\#$		
$1.67 \times 10^3 \dagger$		
$2.62 \times 10^3 \dagger$		
$3.39 \times 10^3 \dagger$		
$4.46 \times 10^3 \dagger\#$		
$\approx 5.5 \times 10^3 \#$		
$7.7 \times 10^3 \dagger\ddagger\#$ /	1.9 MeV /	E(level), Γ : From (1989Be50,1993Be19). Identified as the Spin Dipole Resonance (1995Ic01).
$\approx 8 \times 10^3$		Identified as the Giant Dipole Resonance (1995Ic01).
$10.1 \times 10^3 \#$		
$18.2 \times 10^3 \#$		

\dagger Reported in (1988Vo06,1999Bo26).

\ddagger Reported in (1989Be50,1993Be19).

$\#$ Reported in (1987Ad07).