

${}^{12}\text{C}({}^{13}\text{C}, {}^{13}\text{B})$ [1986Vo02,1988Vo06](#)

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

[1986Vo02,1988Vo06](#): E(${}^{13}\text{C}$)=20-70 MeV/nucleon, measured excitation spectrum, deduced ${}^{12}\text{N}$ and ${}^{12}\text{B}$ levels.

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

<u>E(level)</u>	<u>Jπ</u>	<u>Comments</u>
0	1 ⁺	
1.0×10 ³	2 ⁺	
4.2×10 ³	2 ⁻	E(level): Spin flip giant dipole resonance.
7.5×10 ³	1 ⁻	E(level): Giant dipole resonance.