¹³C(n,p) **1996Wa06**

History								
Туре	Author	Citation	Literature Cutoff Date					
Full Evaluation	J. H. Kelley, C. G. Sheu and J. E. Purcell	NDS 198,1 (2024)	1-Aug-2024					

1987Br32: ¹³C(n,p) E= 65 MeV with neutrons produced via ⁷Li(p,n) at the UC Davis laboratory. Measured $\sigma(E(p),\theta)$ for $\theta=0^{\circ}$ to 40° utilizing a dipole magnet and ΔE -E telescopes. Data presented only for ¹²C target.

- 1988Ja01: ¹³C(n,p) E=198 MeV. Measured $\sigma(E(p),\theta)$ at $\theta=0^{\circ}$ at the TRIUMF charge exchange facility. Related $\sigma(0^{\circ})$ to B_{GT} for ¹³B_{g.s.}
- 1992So02: ¹³C(n,p) E=60 to 260 MeV. Measured $\sigma(E(p),\theta)$ at $\theta=0^{\circ}$ to 10° for the ground state G-T transition at the LANL/WNR facility. Obtained information on the volume integral of the spin-isospin term of the effective N-N interaction and on the relation between $\sigma(\theta\approx0^{\circ})$ and B_{GT} .
- 1996Wa06: ¹³C(n,p) E= 65 MeV. Measured $\sigma(E(p),\theta)$ for $\theta=0^{\circ}$ to 40° at the UC Davis laboratory. Observed peaks at E_x=0, 3.5, 6.5, 7.6, 10.2 MeV. Suggest the 6.5 and 7.6 MeV states are spin dipole in character while the broad 10.2 MeV state is likely the giant E1 resonance.

1996Ma58: ¹³C(n,p)¹³B_{g.s.} E= 118 MeV. Measured $\sigma(E(p),\theta)$ for $\theta=0^{\circ}$ to 19° at IUCF. Analyzed $\sigma(0^{\circ})$ vs. G-T strength.

1998Ha24: ¹³C(n,p) E_n=118 MeV. Measured $\sigma(E_p, \theta=0^\circ \text{ and } 7.5^\circ)$ at IUCF. General discussion.

¹³B Levels

E(level) [†]		Comments			
$0 \\ 3.5 \times 10^3$					
6.5×10^3 7.6×10^3					
	Г: Broad.				

^{\dagger} From (1996Wa06). Peaks include unresolved states.