

$^{13}\text{C}(\text{p,t})$ 1968Co26,1974Be20

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

1968Co26: $^{13}\text{C}(\text{P,t})$ E=43.7, 50.5 MeV, measured $\sigma(E_t, \theta)$. ^{11}C deduced levels, J, π , isobaric analog, P-, α -decay.

1971Ka04: $^{13}\text{C}(\text{P,t})$ E=40, 44, 50 MeV, analyzed $\sigma(\theta)$. Zero-range DWBA.

1974Be20: $^{13}\text{C}(\text{P,t})$ E=46.7 MeV, measured $\sigma(E_t)$. ^{11}C deduced levels.

1974Ma12: $^{13}\text{C}(\text{P,t})$ E=49.6 MeV, measured $\sigma(E_t, \theta)$, A(θ). ^{11}C deduced levels, L.

1975Mi01: $^{13}\text{C}(\text{P,t})$ E=26.8-43.1 MeV, measured $\sigma(E_t, \theta)$.

1982Ka01: $^{13}\text{C}(\text{P,t})$ E=65 MeV, measured $\sigma(\theta)$, A(θ). DWBA analysis.

 ^{11}C Levels

L from (1974Ma12) except for $E_x=6.90$ MeV.

E(level)	J^π	$T_{1/2}$	L	Comments
0			2	E(level): from (1968Co26).
2.00×10^3			0	E(level): from (1968Co26).
4.32×10^3			2	E(level): from (1968Co26).
4.80×10^3			2	E(level): from (1968Co26).
6.48×10^3				E(level): from (1968Co26).
6.90×10^3			(3)	E(level): from (1968Co26).
7.49×10^3			1	E(level): from (1968Co26).
8.42×10^3				E(level): from (1968Co26).
11.03×10^3	3	300 keV 60		(1982Ka01) who also show 8.1, and 8.66 + 8.70 MeV states.
12477	33 1/2 ⁻	546 keV 38	0	E(level): Γ : from (1974Be20).
				%p>0 T=3/2
				E(level): from weighted average of 12.48 MeV 4 (1974Be20) and 12.47 MeV 6 (1968Co26). Preliminary value 12.45 MeV 8 of (1968Co26) had been reported by Maples In 1966.
				Γ : from weighted average of $\Gamma=540$ keV 60 (1974Be20) and 550 keV 50 (1968Co26). Preliminary value 566 keV 60 had been reported by Maples In 1966.
				J^π : (from (1968Co26)).
				decays primarily via p decay to $^{10}\text{B}^*(1.74)$. α decay to $^7\text{Li}^*(0,0.47)$ are also observed (1968Co26).
13.33×10^3	6	270 keV 80		E(level): Γ : from (1974Be20).
13.90×10^3	4	150 keV 50		E(level): Γ : from (1974Be20).
14.07×10^3	4	135 keV 50		E(level): Γ : from (1974Be20).