

<u>$^{13}\text{C}(\gamma, \pi^-)$</u>				
Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	J. H. Kelley, C. G. Sheu and J. E. Purcell		NDS 198,1 (2024)	1-Aug-2024
1982Le06: $^{13}\text{C}(\gamma, \pi^-)$ E=17, 29, 42 MeV; measured anomalously low $\sigma(E_\pi)$ to $^{13}\text{N}_{\text{g.s.}}$. 1984Du16: $^{13}\text{C}(\gamma, \pi^-)$ E=267 MeV; discussed π detection capabilities at NIKHEF-K. 1984St16: $^{13}\text{C}(\gamma, \pi^-)$ E=193 MeV; measured $\sigma(\theta)$ for $\theta=60^\circ$ to 130°. Analyzed reactions to $^{13}\text{N}^*(0, 3.51)$. Deduced form factor. 1986Sh13: $^{13}\text{C}(\gamma, \pi^-)^{13}\text{N}_{\text{g.s.}}$ E=165 MeV; measured $\sigma(\theta)$ for $\theta=50^\circ$ to 150°; analyzed E0 and M1 contributions. 1987Du08: $^{13}\text{C}(\gamma, \pi^-)$; measured $\sigma(\theta)$ in the Δ-resonance region. 1994Ch03: $^{13}\text{C}(\gamma, \pi^-)$ E=170, 300 MeV; analyzed polarization observables for the ground state reaction. 1995Va13: $^{13}\text{C}(\gamma, \pi^-)$ E=184 MeV; measured $\sigma(\theta)$ for $\theta=45^\circ-100^\circ$ and for $^{13}\text{N}^*(0, 3.5 \text{ MeV})$. <i>Theory:</i> 1973Na14: Calculated $T_<$ and $T_>$ giant resonance contributions. 1983Ma40: $^{13}\text{C}(\gamma, \pi^-)$ E=197 MeV; calculated $\sigma(\theta)$. 1984Ti02: $^{13}\text{C}(\gamma, \pi^-)$ E=200-400 MeV; calculated $\sigma(\theta)$ in the Δ resonance region. 1985Sa06: $^{13}\text{C}(\gamma, \pi^-)$ E=200-400 MeV; calculated $\sigma(\theta)$, form factors. 1986Dy02: $^{13}\text{C}(\gamma, \pi^-)$; calculated $\sigma(\theta)$ analyzed in medium effects. 1987Or01: $^{13}\text{C}(\gamma, \pi^-)$; calculated $\sigma(\theta)$. 1990Be12, 1990Be45: $^{13}\text{C}(\gamma, \pi^-)$ E=160-320 MeV; calculated $\sigma(\theta)$. 1990Er03: $^{13}\text{C}(\gamma, \pi^-)$ E=170-320 MeV; calculated $\sigma(\theta)$. 1990Ko19: $^{13}\text{C}(\gamma, \pi^-)$ E=193, 223 MeV; calculated $\sigma(\theta)$. 1991Od04: $^{13}\text{C}(\gamma, \pi^-)$ E=163, 190 MeV; calculated $\sigma(\theta)$. 1993Ch26: $^{13}\text{C}(\gamma, \pi^-)$ E=170 MeV, calculated polarization observables.				

 ^{13}N LevelsE(level)[†]

0
 2.4×10^3
 3.51×10^3
 6.4×10^3

[†] See [\(1984Du16\)](#).