$^{13}C(\pi^-,\pi^+)$ 1992Wa11

History

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

1992Wa11: $^{13}C(\pi^-,\pi^+)$ E=295 MeV, measured $\sigma(\theta)$, $\sigma(\theta,E(\pi))$. Deduced double GDR in ^{13}Be. The (π^-,π^+) double charge-exchange reaction was studied on a 329 mg/cm^2 ^{13}C target at 295 MeV and at θ=5° using the EPICS spectrometer at LAMPF. Peaks corresponding to the ground state and the double dipole resonance are observed at Q=−32.84 MeV and −49.5 MeV *5*, respectively.

^{13}Be Levels

E(level)	Γ	Comments
≈2.0×10^3		E(level): From Q=−32.84 MeV.
18.7×10^3 *5*	9.0 MeV *14*	From Q[(GDR)^2]=−49.5 MeV *5* and Γ=9.0 MeV *14*.