^{9}Be(π^+,π^-) 1980Bu15

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	J. H. Kelley, B. Grees	ENSDF	31-July-2020

1974Ka07: Cross sections for σ(E=30-250 MeV) are calculated along with $\sigma(\theta, E_{\pi^-}=175$ MeV).

1980Bu15: The ^{9}C ground state energy was used to calibrate the EPICS spectrometer at LAMPF. The ground state peak is well resolved from other reaction components. Measured dσ/dO(θ=5°) at E_{π^-}=180 MeV. In (1986Se04) a similar exercise is carried out at E_{π^-}=292 MeV.

1989Gr06: Measured $\sigma(E_{\pi^-}=180, 240)$ for the double charge-exchange (DCX) reaction ^{9}Be(π^+,π^-) and developed a phenominological model to explain the observations.

2007Fo05: Measured (π^+,π^-) and (π^-,π^+) reactions on ^{6,7}Li, ^{9}Be, ^{12}C at E_{π}=120, 180, 240 MeV and for θ=25°, 50°, 80° and 130° at LAMPF. They compared their data with a model where the DCX reaction proceeds via two sequential single charge exchange reactions.

^{9}C Levels

E(level)
0