

$^{12}\text{C}(\pi^+, \pi^-)$ **1987Fa05**

<u>Type</u>	<u>Author</u>	<u>History</u>	<u>Citation</u>	<u>Literature Cutoff Date</u>
Full Evaluation	J. H. Kelley, J. E. Purcell and C. G. Sheu		NP A968, 71 (2017)	1-Jan-2017

[1980Bu15](#): $E_{\pi^+}=180$ MeV, Measured missing mass spectrum ; deduced ground state with $\Delta M=32059$ keV 48.

[1985Mo18](#): $E_{\pi^+}=164$ MeV, Measured missing mass spectrum; deduced ground state and first excited state near 1.7 MeV.

[1987Fa05](#): $E_{\pi^+}=159$ MeV, Measured missing mass spectrum; deduced ground state along with weak evidence for states at $E_x=1.3$ and 2.8 MeV.

Other measurements are reported in ([1979Da16](#),[1983Bl08](#),[1989Gr06](#),[1990Se11](#),[1991Wa04](#),[2000Dr19](#)).

 ^{12}O Levels

E(level)
 0
 $1.3 \times 10^3?$
 1.7×10^3
 $2.8 \times 10^3?$