

$^{39}\text{K}(\pi^+, \pi^0)$ 1986Le01

<u>Type</u>	<u>Author</u>	<u>History Citation</u>	<u>Literature Cutoff Date</u>
Full Evaluation	Jun Chen	NDS 149, 1 (2018)	1-Jan-2018

1986Le01 (also 1985Ir02): E=48 MeV pion beam was produced from the Clinton P. Anderson Meson Physics Facility (LAMPF) of the Los Alamos National Laboratory. Target was four rectangular pieces of natural potassium (93.3% in ^{39}K), each about 260 mg/cm² thick. Reaction products were detected with the LAMPF π^0 spectrometer. Measured $\sigma(\theta)$. Deduced IAS excitation, quadrupole strength.

Unresolved states from 2470-6150 are weakly excited at forward angles, strongly excited at back angles relative to the ground (analog) state (1986Le01).

 ^{39}Ca Levels

<u>E(level)</u>	<u>Comments</u>
0	E(level): analog state.
2500	E(level): unresolved states at 2470, 2800 and 3030.
6000	E(level): group of several states above 3 MeV.