

$^{48}\text{Ca}(^{18}\text{O}, ^{20}\text{N})$  **1989Or03**

<u>Type</u>	<u>Author</u>	<u>History</u>	<u>Citation</u>	<u>Literature Cutoff Date</u>
Full Evaluation	C. G. Sheu, J. H. Kelley		ENSDF	31-Dec-2018

**1989Or03:** Beams of  $E(^{18}\text{O}) \approx 115$  MeV, provided by the ANU tandem accelerator, bombarded 97% enriched  $^{48}\text{Ca}$  targets ( $85 \mu\text{g}/\text{cm}^2$  or  $60 \mu\text{g}/\text{cm}^2$ ) deposited on carbon backings. The reaction products were momentum analyzed by an Enge split-pole spectrometer and detected by a gas-filled multi-element focal plane detector. The spectrometer data was analyzed using a variety of different techniques, including time-of-flight through the spectrometer.

The mass excess  $\Delta M = 22.63$  MeV, deduced from the measured  $Q(\beta^-)$  value  $Q = -25.87$  MeV, is in disagreement with other reported values.

 $^{20}\text{N}$  LevelsE(level)

0