

$^9\text{Be}(^{48}\text{Ca}, ^{18}\text{C})$ [1981St23](#)

<u>Type</u>	<u>Author</u>	<u>Citation</u>	<u>Literature Cutoff Date</u>
Full Evaluation	J. Kelley, C. G. Sheu	ENSDF	01-May-2017

[1981St23](#): Production yields for fragmentation of 213 GeV/nucleon ^{48}Ca projectiles on a beryllium target were measured at the Bevalac using a 0° magnetic spectrometer. The neutron-rich fragments were focused on a stack of Lexan plastic track detectors; analysis of the tracks provided the range, charge and magnetic deflection of the produced isotopes. A charge resolution of 0.2 was obtained along with a mass resolution of approximately ≤ 0.2 u.

The analysis showed clear indications of ^{18}C , ^{19}C , ^{20}C . Ambiguous results on ^{21}C are found. This work is credited with the discover of ^{20}C and ^{27}F . For ^{18}C , the cross section of roughly $10 \mu\text{b}$ was deduced.

 ^{18}C LevelsE(level)

0