
 $^9\text{Be}(^{48}\text{Ca}, ^{20}\text{C})$ **1981St23**

| <u>Type</u> | <u>Author</u> | <u>Citation</u> | <u>Literature Cutoff Date</u> |
|-----------------|---|-----------------|-------------------------------|
| Full Evaluation | M. S. Narijauskas, J. H. Kelley, C. G. Sheu | ENSDF | 9-June-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 discovery of ^{20}C and ^{27}F . For ^{20}C , the cross section of roughly $0.1 \mu\text{b}$ was deduced.

 ^{20}C LevelsE(level)

0