
 ${}^9\text{Be}({}^{48}\text{Ca}, {}^{19}\text{C})$ [1981St23](#)

<u>Type</u>	<u>Author</u>	<u>History</u>	<u>Citation</u>	<u>Literature Cutoff Date</u>
Full Evaluation	J. Kelley, C. G. Sheu		ENSDF	23-March-2017

[1981St23](#): Production yields for fragmentation of 213 GeV/nucleon ${}^{48}\text{Ca}$ 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 ${}^{18}\text{C}$, ${}^{19}\text{C}$, ${}^{20}\text{C}$. Ambiguous results on ${}^{21}\text{C}$ are found. This work is credited with the discover of ${}^{20}\text{C}$ and ${}^{27}\text{F}$. For ${}^{19}\text{C}$, the cross section of roughly $0.8 \mu\text{b}$ was deduced.

 ${}^{19}\text{C}$ LevelsE(level)

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