

$^9\text{Be}(^{24}\text{O}, ^{23}\text{O})$ **2018Di09**

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	M. S. Basunia [#] , A. Chakraborty ^{##}		NDS 171, 1 (2021)	1-Jun-2020

Secondary beam of ^{24}O , $E=92.3$ MeV/nucleon, on ^9Be target (thickness 188 mg/cm^2) located at target position in the S800 spectrograph. ^{24}O was produced from fragmentation of primary beam of ^{48}Ca , $E=140$ MeV/nucleon, on a ^9Be target. The ^{24}O beam with 1% momentum spread was selected with the A1900 fragment separator at NSCL. The projectile-like neutron-removal residues were characterized with the spectrograph. Two cathode readout drift chambers, an ionization chamber for energy-loss measurements, and a plastic scintillator that served as trigger and time-of-flight reference. Measured one-neutron removal cross section of ^{24}O .

 ^{23}O Levels

<u>E(level)[†]</u>	<u>J^π[†]</u>	<u>Comments</u>
0.0	1/2 ⁺	$\sigma_{1n}(\text{expt})=74\text{ mb}$ <i>11</i> . Determined a FWHM of 115 MeV/c <i>13</i> for the intrinsic ^{23}O parallel momentum distribution by fitting the measured values.

[†] From Adopted Levels.