

$^9\text{Be}(^{26}\text{Ne},2\text{pX})$ 2008Fr10

<u>Type</u>	<u>Author</u>	<u>History</u>	<u>Citation</u>	<u>Literature Cutoff Date</u>
Full Evaluation	M. Shamsuzzoha Basunia, Anagha Chakraborty		NDS 186, 2 (2022)	31-Mar-2022

Adapted from XUNDL dataset compiled by S. Geraedts and B. Singh (McMaster); Oct 15, 2008.

Two-proton knockout reaction used to investigate neutron decays of ^{22}O , ^{23}O and ^{24}O .

$E=86$ MeV/nucleon ^{26}Ne beam provided by NSCL at MSU. The ^{26}Ne beam produced in the primary reaction $^9\text{Be}(^{40}\text{Ar},\text{X})$ with $E(^{40}\text{Ar})=140$ MeV/nucleon. The fragments were separated by A1900 fragment separator. ^{26}Ne beam purity about 93%. Measured (neutron)(fragment) coincidences using position-sensitive parallel- plate avalanche counters (PPAC) for charged fragments and Modular neutron array (MoNA) of plastic scintillators for neutrons.

No (neutron-unbound) excited states were observed in ^{24}O .

 ^{24}O Levels

<u>E(level)</u>	<u>J^π</u>
0.0	0^+