

$^9\text{Be}(^{26}\text{F},\text{X})$ 2009St20

<u>Type</u>	<u>Author</u>	<u>History</u>	<u>Citation</u>	<u>Literature Cutoff Date</u>
Full Evaluation	M. Shamsuzzoha Basunia		NDS 127, 69(2015)	1-Apr-2015

^{22}N was produced from fragmentation of ^{48}Ca primary beam with a Be target followed by separation using A1900 fragment separator and secondary beam of ^{26}F , 85 MeV/nucleon fragmentation. Measured neutrons (from the decay of excited states in ^{22}N) in coincidence with ^{21}N nuclei using the Modular Neutron Array (MoNA) at the NSCL, Michigan State University. Comparison with shell-model calculations. Monte Carlo simulations of the neutron spectrum.

 ^{22}N Levels

<u>E(level)</u>	<u>J^π</u>	<u>$T_{1/2}$</u>	<u>Comments</u>
1.93×10^3 22	3^-	<60 keV	E(level): unbound state, $E(n)(\text{c.m.})=650$ 50. $S(n)(^{22}\text{N})=1280$ 210 (2012Wa38). E(level), J^π : first 3^- state from shell-model predictions (2009St20).