^{9}Be(^{32}Ar,^{31}Ar) 2005Ga54

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Jun Chen and Balraj Singh	NDS 184, 29 (2022)	24-Jun-2022

2005Ga54: E=65.1 MeV/nucleon mid-target ^{32}Ar beam was produced from coupled-cyclotron at NSCL. γ rays were detected with the SeGA array of fifteen 32-fold segmented HPGe detectors and reaction residues were detected with the S800 spectrograph. Measured γ, (fragment)γ coin. Deduced cross section and spectroscopic factor. Comparisons with shell-model calculations. No excited states reported.

^{31}Ar Levels

E(level)	J^{π}	Comments
0	$5/2^{+}$	J^{π}: from the Adopted Levels. σ=10.4 mb *13*, spectroscopic factor=24% *3* of predicted value from many-body shell-model calculations.