

Abstract Submitted
for the APR12 Meeting of
The American Physical Society

Gamma ray spectroscopy and shell model calculations reveal the structure of ^{25}Na JUSTIN VONMOSS, SAMUEL TABOR, VANDANA TRIPATHI, PETER BENDER¹, PEI-LUAN TAI, ALEXANDER VOLYA, Florida State University — ^{25}Na was produced in a $^9\text{Be} (^{18}\text{O}, \text{pn})$ reaction at a beam energy of 35 MeV. Gammas were detected using the FSU compton-supressed germanium array in coincidence with protons from the reaction. New states and transitions were observed. The level scheme has been compared with shell model calculations using the COSMO code with the USDA and the WBP with cross-shell interactions.

¹Currently at TRIUMF

Justin VonMoss
Florida State University

Date submitted: 04 Jan 2012

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