Abstract Submitted
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High Spin Structures in 25Na[1] JUSTIN VONMOSS, SAMUEL TABOR, VANDANA TRIPATHI, PETER BENDER[2], ALEXANDER VOLYA, PEILUAN TAI, Florida State University, FLORIDA STATE UNIVERSITY DEPARTMENT OF NUCLEAR PHYSICS TEAM — High-spin states in ^{25}Na were populated in the ^{9}Be (^{18}O, pn) reaction using a 35 MeV ^{18}O beam from the John D. Fox Superconducting Accelerator Laboratory at Florida State University. Gamma rays were detected using the FSU compton-supressed germanium array in coincidence with protons from the reaction. Two new states and seven new gamma transitions were observed. Additionally a doublet has been identified which a resolves conflict in the published works. Unobserved, and highly excited particle-hole states have been predicted using shell model calculations.

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