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INPP Seminar | ^{33}Mg from a Simple Perspective, Feb. 21

February 1, 2017

Categories: Events

Tags: Andrea Richard, Institute of Nuclear and Particle Physics, physics and astronomy events

The Institute of Nuclear and Particle Physics (INPP) presents [Andrea Richard](#), of Ohio University, “ ^{33}Mg from a Simple Perspective” on Tuesday, Feb. 21, at 4 p.m. in Edwards Accelerator Lab, Roger W. Finlay Conference Room.



Andrea Richard

Abstract: The “Island of Inversion” at $N \approx 20$ for the neon, sodium, and magnesium isotopes has long been an area of interest both experimentally and theoretically due to the presence of particle-hole excitations that lead to deformed ground states. However, the presence of rotational band structures, which are fingerprints of deformed shapes, have only recently been observed. Results from a measurement of the low-lying level structure in ^{33}Mg populated via a two-stage projectile fragmentation reaction and observed using GRETINA will be presented. I will show that the experimental level energies, magnetic moment, and γ -ray intensities show good agreement with leading order calculations in the strong-coupling limit of the rotational model.