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Observation of neutron-unbound resonant states in 23O and 28Ne JOHN NOVAK, Western Michigan University, NSCL/MSU, STEVE QUINN, MICHAEL STRONGMAN, SHEA MOSBY, ARTEMIS SPYROU, THOMAS BAUMANN, MICHAEL THOENNESSEN, NSCL/MSU, MONA COLLABORATION —
The decay energy spectra of neutron-rich 23O and 28Ne were measured. The isotopes were produced in stripping reactions from a 85MeV/u 29Na beam on a beryllium target. Neutrons were measured in coincidence with light neutron-rich fragments produced in stripping reactions from an 85MeV/u 29Na beam on a beryllium target. The neutrons were detected with the Modular Neutron Array (MoNA) and the fragments were analyzed with the MSU/FSU Sweeper magnet system. Low-energy resonances close to the neutron-separation energies were observed in both system. The results for 23O agrees with a previous measurement[1] and the resonance in 28Ne was observed for the first time.

[1]A. Schiller et al., Phys. Rev. Lett. 99 (2007) 112501

John Novak
Western Michigan University

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