Contribution ID: **64** Type: **Talk**

Evidence for the ground-state resonance of 26O

Wednesday, 28 March 2012 09:50 (20 minutes)

Evidence for the ground-state resonance of 26O was observed through a three-body coincidence measurement of 24O+n+n using the Modular Neutron Array (MoNA) at the National Superconducting Cyclotron Laboratory. The ground-state of the unbound 26O was populated through a single proton-knockout reaction from a 82 MeV/u 27F beam. A Monte Carlo simulation, which included the population of an excited state in 26O and the ground-state of 25O through a 1p-1n knockout reaction, was used to fit the data. The 26O ground-state was determined to be unbound by less than 200 keV, in agreement with recent shell-model calculations.

Primary author: KOHLEY, Zachary (National Superconducting Cyclotron Laboratory)

Co-author: COLLABORATON, MoNA (National Superconducting Cyclotron Laboratory)

Presenter: KOHLEY, Zachary (National Superconducting Cyclotron Laboratory)

Session Classification: Session 7