

## Neutron monopole drift towards $^{78}\text{Ni}$

*Monday, 15 September 2014 11:55 (20 minutes)*

We would like to present about our current investigation on neutron monopole drift towards  $^{78}\text{Ni}$  by performing gamma-ray spectroscopies in the odd-mass  $N=49$  isotone;  $^{79}\text{Zn}$ . The study of single-particle levels in  $^{79}\text{Zn}$  will provide critical data to understand the neutron monopole evolution in the vicinity of  $^{78}\text{Ni}$ . Some of excited levels in  $^{79}\text{Zn}$  were identified by a  $\beta$ - $\gamma$  spectroscopy performed as a part of the EURICA campaign at RIBF in 2012. In addition, we propose to analyze by-products of the SEASTAR experiment to confirm the nature of the observed excited states. In the workshop, preliminary results of the EURICA experiment and purpose of submitted analysis proposal will be discussed.

**Primary author:** NIKURA, Megumi (Department of Physics, University of Tokyo)

**Presenter:** NIKURA, Megumi (Department of Physics, University of Tokyo)

**Session Classification:** Session 2