
DECAY STUDIES OF EXOTIC NUCLEI AT RIKEN

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In this talk I would give an overview of decay studies at RIBF and future programs. Special emphasis would be given to recent highlights from the decay spectroscopy.

Since RIBF started operation in 2007, decay spectroscopy has been one of major activities to study the nuclear structure. The first decay spectroscopy was organized in December, 2009 to investigate neutron-rich nuclei with $A \sim 110$. Based on the success of the first spectroscopy, the beta-gamma and isomer spectroscopy with 12 Euroball cluster detectors were extensively organized under the large international collaboration "EURICA". About 100 days were approved and allocated from 2012 to 2016, and the physics programs of EURICA were finished last June.

In parallel a next large collaboration "BRIKEN" has been organized to measure beta-delayed neutron emission probabilities with a large array of more than 160 He-3 tubes, and physics runs will start in 2016 or 2017.

I would introduce the activities of decay studies and discuss future strategy.