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In-beam gamma-ray spectroscopy of exotic nuclei at the RIBF

Thursday, 6 December 2018 16:30 (30 minutes)

At the Radioactive Isotope Beam Factory in-beam gamma-ray spectroscopy experiments take advantage of the wide range of radioactive ion beams produced by the projectile fragmentation and fission. Isotopes of interest are separated by the BigRIPS fragment separator and guide to a secondary reactions target. Reaction residues are identified either in the ZeroDegree spectrometer or with the SAMURAI setup. Gamma rays emitted at the reaction target are detected with high efficiency in the DALI2 NaI(Tl) array.
The physics program includes a wide range of topics in nuclear structure addressing collective and single-particle structure of nuclei very far from stability.
In this talk I will give an overview of recent results on proton- and neutron-rich nuclei and discuss future experimental campaigns at the RIBF.

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Session Classification: Other Facilities 2