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Study of neutron-rich nuclei at RIKEN RI Beam Factory

An overview on experimental activities about neutron-rich nuclei produced with the "Radioactive Isotope Beam Facility" (RIBF) would be given.

Since 2007, the RIBF facility has been aiming (1) to discover new quantum phenomena in a large isospin symmetry through investigating the nuclear structure in very neutron-rich, (2) to study correlation and condensation of loosely bound neutrons, (3)to elucidate the r-process path by giving a benchmark to astrophysical scenarios, and (4) to obtain the information on the equation-of-state in asymmetric nuclear matter.

In this talk, special emphasis would be given to selected recent highlights obtained at RIBF. A facility upgrade plan of RIBF would be introduced, too.

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