

Nuclear Structure far from Stability, latest results from MINOS at RIKEN

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The spectroscopy of very neutron-rich nuclei offers unique information on the shell structure evolution with isospin. New phenomena such as Borromean nuclei and halos have been discovered. The Radioactive Isotope Beam Factory of RIKEN is today leader in producing neutron-rich nuclei. A new device called MINOS has been built recently at CEA Saclay to maximize the luminosity for hydrogen-induced knockout reactions at intermediate incident energies while the vertex position inside the target is tracked. Since 2014, the MINOS device is being used at the RIBF of RIKEN in combination with the ZeroDegree spectrometer or the SAMURAI spectrometer and other detection systems such as the DALI2 gamma array.

The most recent results obtained from experiments performed in 2014 and 2015 at the RIBF by using MINOS will be presented.

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