

## **New energy-degrading beamline for low-energy reaction measurements of RI beam**

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The recent developments of technique in providing RI beams have been made many advances in radioactive isotope science. The RI beam facility (RIBF) has expanded the variety of nuclides. However, available beams are restricted to an energy region above 100 AMeV or stopped beams. The variety of reaction has not been necessarily expanded on this point. The deceleration of intense RI beams provided in RIBF enable the further research based on exotic nuclei/exotic states by employing low-energy reactions, such as transfer reaction, fusion reaction and others. CNS has set up OEDO (Optimized Energy Degrading Optics for RI beam) project for production of high-quality low energy RI beams. Regarding OEDO project, the basic idea, performance study by simulation and design is introduced in this presentation.

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