



独立行政法人理化学研究所 仁科加速器研究センター
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RIKEN Nishina Center for Accelerator Based Science
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Present status of KEK isotope separation system (KISS)

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The KEK isotope separation system (KISS) is being developed for the main purpose to measure the lifetimes of rare-RI's with neutron number around 126 related to r-process. They will be produced by the multinucleon transfer reactions between the Xe-136 beam and the Pt-198 target at the energy above the Coulomb barrier. The gas cell and the laser resonance ionization technique is used to efficiently stop, ionize, extract and separate the rare-RI's. We have set up the gas cell, laser system, mass separator and beam lines, and started off- and on-line tests in 2012. In 2014, we have set up the detection system and started the lifetime measurements. In this talk, the present status of KISS is presented.

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