## Abstract Submitted for the HAW09 Meeting of The American Physical Society

Recent activities with slow and stopped RI at Tohoku-Cyclotron TAKASHI WAKUI, Tohoku University, YUJI MIYASHITA, RIKEN, KENZI SHIMADA, Tohoku University, NOZOMI SATO, JAEA, SAYO HOSHINO, HIROYUKI OUCHI, AYAKO SASAKI, SAYAKA IZUMI, TSUTOMU SHINOZUKA, Tohoku University — An overview will be presented of our recent activities with slow and stopped radioactive isotopes (SSRIs) at Cyclotron and Radioisotope Center (CYRIC), Tohoku University. Slow RI beams are mainly provided by the RF ion guide isotope separator on-line (RF-IGISOL) in which neutron rich nuclei in medium mass region are produced by proton induced fission reactions with a Uranium target. Using the RF-IGISOL, some experimental programs have been carried out, such as measurements of g-factors and half-lives of excited states. A brief description of some ongoing projects utilizing the SSRIs will also be given. This description includes the production of spin polarization and installation of a new ECR ion source. Furthermore, the future prospects with SSRIs will be mentioned with emphasis on further development of the RF-IGISOL.

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