

Status of MUSES Project at RIKEN RI Beam Factory, T. KATAYAMA, CNS/RIKEN - MUSES (Multi Use Experimental Storage ring) is an accelerator complex to explore the science of Radio Isotope beam, especially the nuclear science. Typical experiment planned at this facility is a colliding of RI beams with electron beam to measure the nuclear structure of neutron rich nuclei. The RI beams will be produced via a fragmentation process of a primary beam of 100-400 MeV/u from the injector superconducting cyclotron. This big heavy ion cyclotron is now under the construction at RIKEN as a 4 years project. The RI beams will be mass and momentum separated and will be injected in Accumulator Cooler Ring where high density RI beams will be formed with strong beam cooling, stochastic and electron cooling devices. Then they are transferred to Booster Synchrotron Ring and accelerated to the required energy, typically 1 GeV/u. Then they are stored in one of the Double Storage Rings. Another ring of the DSR is filled with electron beam, 0.3-2.5 GeV, and the colliding experiments of RI beam and electron beam is performed. The project is scheduled to start the construction in series with the completion of superconducting cyclotron. In the present paper, the details of accelerator system of MUSES will be presented as well as the expected luminosity.