

**Design of Slow Extraction System at Booster Synchrotron for MUSES**, T. KATAYAMA, CNS Univ. Tokyo, T. OHKAWA, RIKEN - The Booster Synchrotron Ring (BSR) is a part of Multi-Use Experimental Storage rings (MUSES). BSR functions exclusively for the acceleration of ion and electron beams. The maximum accelerating energy is, for example, to be 3 GeV for proton; 1.45 GeV/nucleon for light ions of  $q/A=1/2$ ; 800 MeV/nucleon for heavy ions of  $q/A=1/3$ . Electron beam is accelerated to 2.5 GeV from the injection energy 300 MeV. The accelerated ion and electron beams will be fast extracted and injected into Double Storage Rings (DSR) by one turn injection. As another operation mode, ion beams will be slowly extracted for the experiments. In this paper, injection and extraction procedures of BSR, especially slow extraction, are presented.