**Design of Double Storage Rings at MUSES**, N. INABE, RIKEN; T. KATAYAMA, CNS Univ. of Tokyo - The Double Storage Rings (DSR) is an experimental colliding rings planned in Radio Isotope Beam Factory at RIKEN. In the DSR unique experiments are envisaged through collision or merging of RI beams with electron beams, ion beams and X-rays produced from an undulator. The DSR is composed of two rings called electron ring and ion ring. The electron ring stores not only electron beam but also ion beam for merging experiment. In this ring electron beam is injected by multi-turn and stored by two operation modes which has emittance of 1 micro m\*rad for collision with RI beam and 10 nano m\*rad for production of high brilliant X-ray. Control of emittance is performed by lattice parameter of an arc. Ion beam is injected by one-turn and stored by another mode from electron beam. The ion ring stored only ion beam. This ring has two injections. Ion beam is injected and stored with the same way as the electron ring. The circumference of each ring is 269.568 m. The experiments are performed at two crossing points. One is for collision of RI beam with electron with crossing angle of 20 mrad. Another is for the merging for ion beams with angle of 170 mrad. Study of dynamic apperture with chromaticity correction will be presented.