

# STATUS OF THE REACCELERATOR FACILITY R $\epsilon$ A FOR RARE ISOTOPES

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for the R $\epsilon$ A commissioning and installation team

Monday, April 11, 2011

4:00 P.M. NSH 124

The Facility for Rare Isotope Beams (FRIB) is currently in the preliminary design phase at Michigan State University (MSU). FRIB consists of a driver linac for the acceleration of heavy ion beams, followed by a fragmentation target station and a ReAccelerating facility (R $\epsilon$ A). While FRIB is expected to start commissioning in 2018, the first stage of R $\epsilon$ A called ReA3 is already under commissioning and will be coupled to the Coupled Cyclotron Facility at the end of 2012. Once FRIB is completed R $\epsilon$ A will continue operation as post-accelerator facility for FRIB.

R $\epsilon$ A consists of a gas stopper, an Electron Beam Ion Trap (EBIT) charge state booster, a room temperature radio frequency quadrupole (RFQ), a LINAC using superconducting quarter wave resonators, and an achromatic beam transport and distribution line to a new experimental area. An overview of the facility will be discussed. In particular, this talk will focus on the technical progress and R&D for the superconducting LINAC as well as its commissioning effort.

Nuclear  
Seminar

All interested  
persons are  
cordially  
invited to  
attend.