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High Beam Power Operations at Heavy Ion Facilities: Technical Developments, Challenges and Resolutions

Monday 2 June 2025 10:00 (30 minutes)

The Radioactive Isotope Beam Factory (RIBF) of RIKEN is a cyclotron-based heavy ion accelerator facility, which can accelerate heavy ions including uranium up to 345 MeV/u using an accelerator complex with a K2600-MeV Superconducting Ring Cyclotron (SRC) in the last stage to produce rare isotope beams in an in-flight technique. In the 15 years of developments the intensity and stability of the heavy-ion beams have been significantly improved. The core experimental instrumentations, such as the Rare RI Ring, are now in operation, and further results are expected in the future. This presentation will discuss the various technological developments that have been made since the start of RIBF acceleration and will provide future directions.

Footnotes

Funding Agency

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