



Contribution ID: 24

Type: **Invited Oral Presentation**

Liquid lithium charge stripping technology: achievement and lessons learned

Monday 2 June 2025 12:00 (30 minutes)

Liquid metal technology is key to the next-generation high-power hadron facilities. Following early R&D collaboration between Argonne National Laboratory and Michigan State University, FRIB pioneered on the technology of thin-film liquid lithium and is the first in the world applying such technology in accelerator operations. FRIB used liquid-lithium film for the charge stripping of high-power heavy-ion beams, enabling FRIB to achieve world's highest power uranium beam on target.

Liquid lithium technology has been successfully developed and applied for FRIB operations, offering a superior choice for charge stripping of high-power heavy ion beams including uranium. Valuable experience has been gained in the performance and maintenance. This talk focuses on operational experience, lessons learned and future improvements.

Footnotes

Funding Agency

Primary author: KANEMURA, Takuji (Facility for Rare Isotope Beams, Michigan State University)

Presenter: KANEMURA, Takuji (Facility for Rare Isotope Beams, Michigan State University)

Session Classification: Plenary after coffee