

The TRIUMF-ARIEL Multi-User Facility and Potential Synergies with EPIC

Wednesday, 25 November 2020 10:00 (20 minutes)

ISAC-TRIUMF is routinely operating targets under particle irradiation in excess of 10 kW making it the only ISOL facility that operates in the high-power regime. TRIUMF's current flagship project ARIEL, Advanced Rare Isotope Laboratory, will add two new target stations providing isotopes to the existing experimental stations in ISAC I and ISAC II at energies between 15 keV and 16 MeV/u. Together with the recently commissioned additional 200 m of RIB beamlines and an additional EBIS CSB within the radioisotope distribution complex, this will put TRIUMF in the unprecedented capability of delivering three RIBs to different experiments, while producing radioisotopes for medical applications simultaneously –enhancing the scientific output of the laboratory significantly.

With recent developments of modern target stations, remote handling and shielding technologies, beam purification and delivery systems, ARIEL and EPIC have significant potential overlap in technology and scientific scope, opening ample opportunities for cross-pollination.

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