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TRIUMF Laser (Resonance Ionization) Ion Source Capability

By now the laser resonance ionization ion source has been firmly established as the ion source of choice for a major portion of the elements requested for experiments at TRIUMF's radioactive ion beam facility ISAC. The presentation will focus on the available capabilities of the Resonance Ionization Laser Ion Source (RILIS) as implemented at TRIUMF in terms of element reach, beam purity and special operation modes for radioactive ion beam delivery and isotope collection. RILIS operation under COVID restrictions, other current challenges and future development plans will also be discussed.

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