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Resonant Ionization Laser Ion Source at TRIUMF

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Resonant laser ionization of atoms provides an efficient and selective means for ion source operation. It uses stepwise resonant excitation of an atom's valence electron into energetically Rydberg states or auto-ionizing levels. A resonant ionization laser ion source RILIS is particularly suited to provide beams of rare isotopes at radioactive isotope facilities like ISAC at TRIUMF.

The operational principle, current developments, application and science with TRIUMF's RILIS will be discussed.

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