

Recent results from the ISAC facility at TRIUMF

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At the ISAC facility at TRIUMF radioactive ions are produced by bombarding solid targets with 500 MeV protons from a cyclotron. With a proton beam current up to 100 micro Amps it is the ISOL facility with the highest beam power of the primary beam so far. The facility is operational for more than 10 years and a wide range of different target materials have been used combined with surface, FEBIAD or resonant laser ion sources. Since about 3 years this was extended to actinide targets. Presently the license limit for those is at 10 micro Amps. Ions extracted from the target ion source systems can be either used for low energy experiments directly or they can be post accelerated up to an energy of about 10 MeV/u. The original design of the post accelerator only allowed the acceleration of ions lighter than 30 amu. During the last years charge breeding for heavier ions with an ECR ion source has been installed and a first experiment with accelerated Rb isotopes has been performed this year. The presented will give an overview of the facility and concentrate on recent results.

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