

## The ISAC facility at TRIUMF and Halo-nuclei mass measurements at TITAN

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The ISAC facility at TRIUMF is providing over 200 different radioactive beams to users at energies up to 5 MeV/u. Plans exist to extend the facility by an additional 200µA proton beam line and a photo-fission facility based on a mega-watt class superconducting electron linac.

One of the experimental facilities at ISAC is TITAN, a high precision Penning trap mass spectrometer.

First experiments with radioactive beams were carried out this year with the aim to determine the masses of halo nuclei. In a first run, the mass of Li-8 and Li-9 were investigated with a precision of about  $2 \cdot 10^{-8}$ .

The goal of an upcoming experiment (Dec 2007) is the mass measurement of Li-11.

The talk will give an overview of ISAC and present the future plans. It will introduce the TITAN facility and show first experimental results.

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