

Highlights from the ISAC Science Program

Thursday, 19 November 2009 11:00 (30 minutes)

At TRIUMF-ISAC, high-power isotope separation on-line (ISOL), surface and resonant ionization, and linear heavy-ion accelerator technology provide radioactive beams of high intensity and low emittance. ISAC is complemented by a suite experimental facilities for research in nuclear astrophysics, nuclear structure, fundamental interactions and symmetries, and condensed matter research. This talk will review selected recent results from the ISAC science programs, such as: nuclear structure of lithium and beryllium isotopes; high-precision lifetime and branching ratio measurements in ^{26}Al and ^{19}Ne ; near-threshold states in $A=20-30$ nuclei and their contributions to astrophysical processes; and, interface effects in niobium films. A recently- submitted proposal to upgrade and extend the ISAC facility will be reviewed.

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