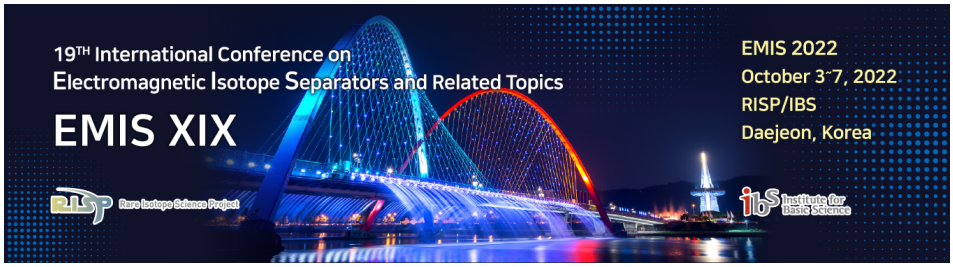

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The ISAC Target and Ion Sources Outlook: Facility Reliability Improvements

Monday, 3 October 2022 19:42 (8 minutes)

The ISAC facility has been producing radioactive ion beams for more than 20 years, however the infrastructure is beginning to age and revitalizing highly activated equipment poses challenges. Here we report on a plan to refurbish the ISAC infrastructure for increased reliability and with upgrades to improve science output. The main focus of this plan is the refurbishment of the ISAC target modules, which are crucial to the production of radioactive ion beams, but which suffer from high radioactive exposure and frequent mechanical interventions. Common failure modes and deficiencies, learned through years of experience at ISAC, will be identified and addressed in order to help ISAC continue to meet its goal of >93% availability of targets and ion sources. In addition to the module upgrades, supporting infrastructure, equipment and processes must also be improved, as part of a facility-wide approach to addressing ISAC's future.

Primary author: BABCOCK, Carla (TRIUMF)

Co-authors: GOTTBERG, Alexander (TRIUMF); SHKURATOFF, Alexander (TRIUMF); Dr BRICAULT, Pierre (TRIUMF); MCEWEN, Sam (TRIUMF); NG, Keith (TRIUMF)

Presenter: BABCOCK, Carla (TRIUMF)

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