

The future of ISOLDE

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The HIE-ISOLDE project will provide beams of accelerated radioactive beams up to 10 MeV/u at CERN. The energy upgrade, carried out in two stages (the first stage will give beams of 5.5 MeV/u), will be accompanied by major developments to the Isolde target and front-end that will allow a 3-fold increase in the proton intensity anticipated from LINAC4 and a faster PSB cycling frequency. The HIE-ISOLDE project also demands development of the low-energy components of REX (charge breeder and beam injection) as well as improved mass separation from a modified HRS. These enhancements will allow the RIB facility at Isolde to be applied to a much wider programme in nuclear physics and astrophysics than at present, as well as benefiting the low energy programme (ground state properties and condensed matter applications).

Primary author: Prof. BUTLER, Peter (University of Liverpool and CERN)

Presenter: Prof. BUTLER, Peter (University of Liverpool and CERN)

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