

HIE-ISOLDE

Tuesday 7 February 2006 14:15 (30 minutes)

The physics community that use radioactive ion beams, estimated to be about one thousand in Europe alone, requires diversity of ions species, diversity of beam energy, and high beam intensities. REX-ISOLDE already provides the first of these; the aim of HIE-ISOLDE is to achieve the second and the third. This requires developments in post-acceleration (the present energy restricts the application of REX to studies of light nuclei) and radioisotope selection as well as target-ion source development and charge-breeding to cope with the increase in proton intensity promised by LINAC4. A five-year development programme, with an injection of 9 MCHF from CERN together with contributions from member states and the EU, will realise this facility and make CERN the undisputed world centre for RIB physics by the end of this decade.

Author: LINDROOS, Mats (CERN)

Presenter: LINDROOS, Mats (CERN)

Session Classification: Technical Developments I