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The IThemba LABS Radioactive Beam Project

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A feasibility study to develop a radioactive beam facility at iThemba LABS has commenced. The proposal envisages the addition of a new cyclotron, a k70 negative-ion accelerator. Such an accelerator can supply two beams simultaneously, one to be used for isotope production and neutron therapy, the other to create radioactive ions. These can be post accelerated by the existing SSC accelerator to energies of 5.7 MeV/A. It is envisaged that the beamtime available for nuclear physics, presently restricted to weekends only, will more than double. The feasibility study aims to minimize costs and maximize performance. However, many technical challenges remain in producing radioactive beams so the study also aims at minimizing risks.

**Level (Hons, MSc,
 PhD, other)?**

other

**Consider for a student
 award (Yes / No)?**

no

**Would you like to
 submit a short paper
 for the Conference
 Proceedings (Yes / No)?**

no

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