

Nuclear and Applied Research at JYFL Accelerator Laboratory

Monday 25 November 2013 17:00 (30 minutes)

Accelerator Laboratory in the Department of Physics, University of Jyväskylä has three disciplines, basic research in nuclear physics, accelerator-based material science and accelerator based commercial services. Those areas are using primary ion beams from three accelerators; K130 heavy ion cyclotron, MCC30 light ion cyclotron and Pelletron accelerator, all of them equipped by in-house produced ion sources. In this presentation I will shortly introduce the present layout and basic instrumentation of the Accelerator Laboratory.

Basic research has mainly concentrated on the research at ion Guide Isotope Separator On Line (IGISOL) and gas-filled recoil spectrometer (RITU). IGISOL facility has recently been moved to a new location. In this presentation, IGISOL program will be highlighted and future prospect with new IGISOL-4 will be discussed. Similarly, a research highlight from a gas-filled recoil spectrometer RITU will be introduced and future prospects with a new vacuum mode separator MARA will be given.

An increasing amount of beam time at Accelerator Laboratory is devoted to accelerator-based material research and applications. The applied program of the Accelerator laboratory will be summarized and the recent highlights of the research will be demonstrated.

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