

Ion Accelerator Facilities at IUAC, New Delhi

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Inter Universities Accelerator Centre, New Delhi has many varieties of ion accelerators delivering ions covering energy range of keV to MeV. The 15UD Pelletron accelerator has been operational since 1990 and continuously providing variety of beams to a large number of researchers. The Linear Accelerator (LINAC) development, fabrication and installation has been completed and it is being used for accelerating high energy beams. Recently there has been addition of two new low energy ion beam facilities in the existing ion accelerator facilities providing low energy positive and negative ion beams. Both of these facilities provide ion beams in keV energies from ECR based ion source for positive ions and MC-SNICS ion source for negative ions.

The development of high current injector (HCI) facility for LINAC is progressing well and soon independent injection of high current beams to LINAC will start. An independent 500kV tandem accelerator for Accelerator Mass Spectrometry (AMS) related measurements of ^{14}C , ^{10}Be and ^{26}Al will be installed in early 2015. A completely automated graphitization facility for sample preparations for ^{14}C AMS measurements has also been established.

The details of various developments and research activities in accelerators and related areas will be presented.