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Project to install a Tandem Accelerator at USTHB (Algeria)

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The Nuclear Sciences and Radiation-Matter Interaction Laboratory (SNIRM) at the Faculty of Physics of the University of Sciences and Technology Houari Boumediene (USTHB) is engaged in the acquisition of a tandem ion accelerator in the range of a few MeV. This facility will be located on the USTHB site. The characteristics of the accelerator have been defined and relate mainly to the installation of a tandem accelerator with two sources of ions, the first for light ions (H, D and He) and the second is a sputtering one for intermediate and heavy ions. It is also planned to acquire two beam lines equipped (goniometer analysis chamber and a chamber for irradiation and ion implantation)

The main projected activities are: Nuclear sciences, Ion beam characterization, Ionic implantation and Nano structuration, Materials under irradiation (stopping power, radiation damage, sputtering ...)

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