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Involving low energy accelerators in exotic nuclei research

In this presentation a brief review is made of the two main accelerator facilities that participate in the experimental nuclear physics program at IFUNAM in Mexico.

I will briefly describe our participation in the study of the unbound di-nucleon systems ($2n$ and $2He$) using traditional coincidence methods.

The use of the activation with charged particles followed by AMS (AFAMS) to study the $11Be$ nucleus, as well as other applications.

The study of rotational bands in light nuclei taking advantage of our supersonic gas jet target.

The upgrade of our 5.5 MV single-ended electrostatic (Van de Graaff) accelerator with a new Electron Cyclotron Resonance Ion Source, in collaboration with JINR will also be described, together with its applications to the production of monoisotopic targets of noble gases.

Notes

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