

Slowing down exotic beams from the FRS: the FRS Ion Catcher experience

martes, 25 de marzo de 2025 16:30 (20)

For a successful experiment with slowed down exotic beams at a fragmentation facility, certain common steps have to be followed including identification, separation and an accurate set of their energy to match the range into the detector to be used. At GSI, primary beams are accelerated to relativistic energies to impinge in a production target at the entrance of the Fragment Separator (FRS) where exotic nuclei are produced via projectile fission or fragmentation. The FRS has the capabilities of identification, separation and selection of the exotic species of interest and setting their energy by means of degraders to match their range to match the experimental needs: active stopper, ion catcher, ancillary detector...etc. In this contribution we will share the experiences gathered by slowing down exotic nuclei in an ion catcher, the FRS Ion Catcher, showing some aspects and learned lessons which might be of interest to other experiments.

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Clasificación de la sesión : Session 6