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Charge states distribution for Bi26+ and Au26+ after a plasma stripper

This plasma stripper experiment is performed at Z6 area of GSI. We adapt the two ion species of Bi and Au with both the initial charge state of 26+. These 3.6 MeV/u projectiles with a frequency of 36 MHz penetrate the hydrogen plasma produced in the inductively coupled plasma device. The

both 3.6 MeV/u Bi26+ and Au26+ with a frequency of 36 MHz are adopted as the projectiles. Taking advantage of a dipole, the emergent projectiles with the different charge state are separated on a Scintillator. The emitting photons from this Scintillator are captured by an ICCD camera. Under the assumption of proportionality relationship, the charge states distribution of projectiles after the plasma are obtained.

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