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Production of actinide atomic and molecular ion beams at CERN-ISOLDE

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Atomic and molecular actinide ion beams have been produced at the CERN-ISOLDE facility using the Isotope Separation On-Line (ISOL) technique. The ion beam composition was studied using: the ISOLTRAP Multi-Reflection Time-of-Flight Mass Spectrometer (MR-ToF MS) for identification by ToF mass measurements, on-line γ -ray spectroscopy at the ISOLDE tape station, and off-line decay spectroscopy of ion-implanted samples.

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