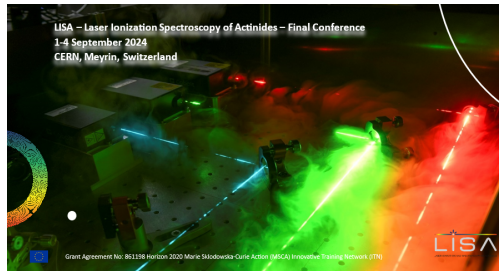


LISA conference



Contribution ID: 7

Type: **not specified**

Laser spectroscopy for probing atomic structure of neptunium

Monday 2 September 2024 14:45 (30 minutes)

Laser ionization and spectroscopy of actinides are among the primary research activities of the LARISSA group at Mainz University. Numerous isotopes have been investigated using resonant ionization mass spectrometry.

The research carried out at the RISIKO mass separator of Mainz University using the PI-LIST and the newly developed FI-LIST laser ion sources will be presented. The former allows for the measurement of hyperfine structures, while the latter enables the study of the ionization potential of elements exhibiting complex spectra. The results of the studies on neptunium, obtained using both sources, will be showcased during the presentation.

Presenter: KAJA, Magdalena Anna

Session Classification: Session 3