A New Laser Ablation Ion Source for ISOLTRAP



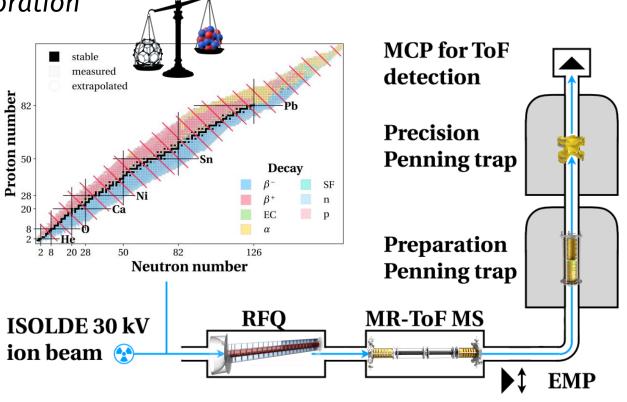
Lukas Nies

CERN and University of Greifswald (GER)

For the ISOLTRAP Collaboration

Motivation and Applications

- ➤ Systematic studies of uncertainties of
- Multi-Reflection Time-of-Flight Mass Spectrometer (MR-ToF MS)
- Phase-Imaging Ion-Cyclotron-Resonance (PI-ICR) technique
- ➤ Source of various reference masses
- ➤ Ablation of long-lived radioactive ions









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- How it works
- > Design considerations
- History of LAS at ISOLTRAP
- > SIMION simulations
- Daily struggle in the lab



