WP5: EXPLORING THE LIMITS OF

KU LEUVEN

NUCLEAR EXISTENCE





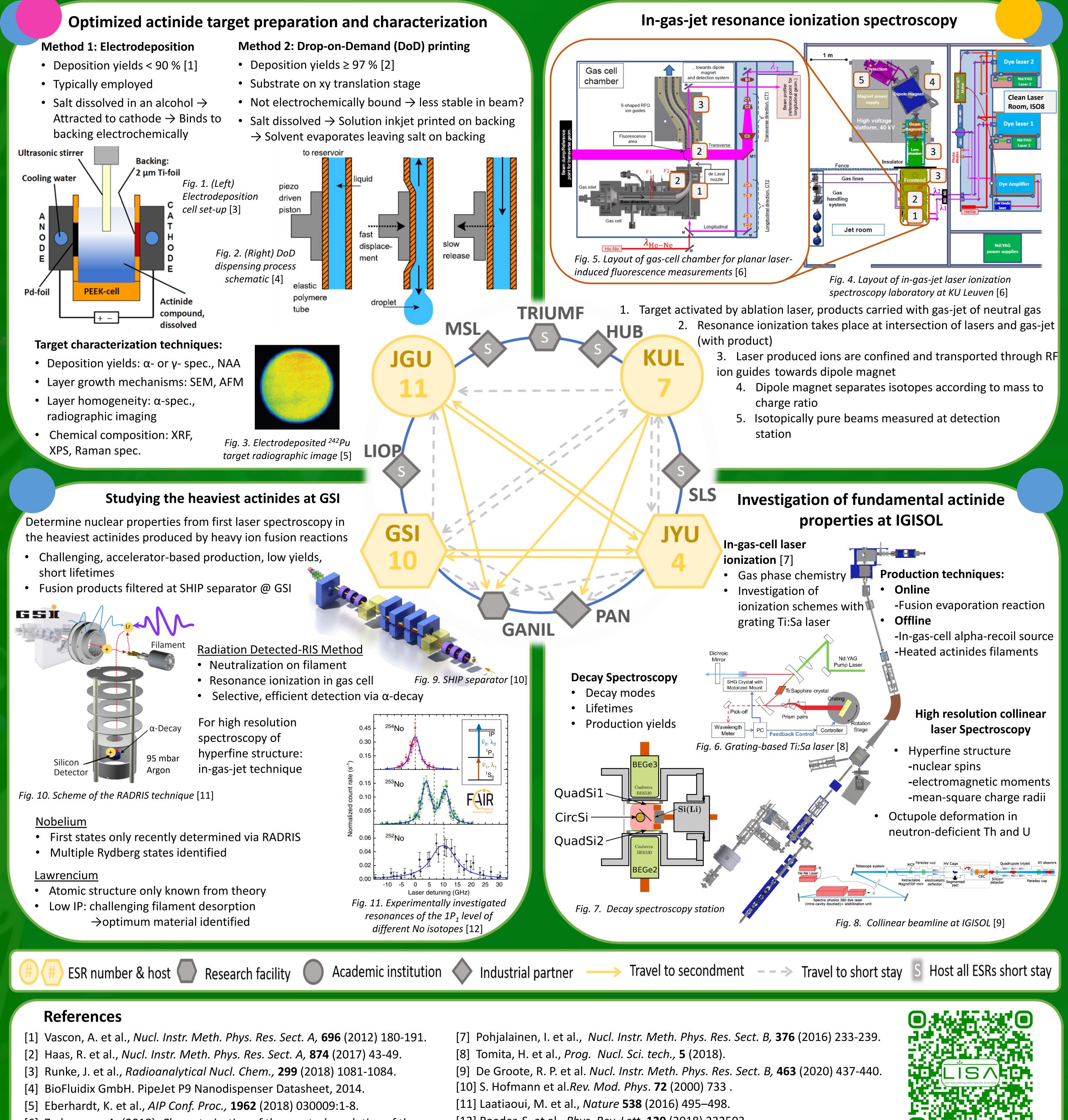


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Objectives of WP5

- Optimize actinide target preparation and characterization techniques for the LISA network
- Characterize and optimize the novel in gas jet spectroscopy technique for final implementation at GANIL S3
- Perform laser spectroscopy using highly sensitive techniques on both actinide and transactinide isotopes to probe atomic and nuclear properties and to benchmark state of the art atomic and nuclear theoretical calculations



- [6] Zadvornaya A. (2018), Characterization of the spectral resolution of the in-gas-jet laser ionization spectroscopy method (Doctoral dissertation), KU Leuven, Belgium.
- [12] Raeder, S. et al., *Phys. Rev. Lett.* **120** (2018) 232503.



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