

Training Office update

Academic Day

17 June 2022, CERN



This Marie Skłodowska-Curie Action (MSCA) Innovative Training Networks (ITN) receives funding from the European Union's H2020 Framework Programme under grant agreement no. 861198



The Training Office, at your service!



Thomas E Cocolios
Training Officer
KU Leuven



Bruce A Marsh
Network Coordinator
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Isabelle M Fontaine
Replaced by
Sonia Allegretti
CERN



James Bain
Industrial Rep
Msquared

- Define the training objectives of the LISA programme
- Coordinate the continued education aspects of LISA
- Supervise the organization of the LISA training events
- Be there to support the ESRs from start to finish

- Changing every year
1. IREPA Laser
 2. Hübner Photonics
 3. Panttechnik

Training events

Follow-up on the planning

Where we stand in the training program...

1. Training kick-off at KU Leuven = Nov 2020
 - *Combined with the MidTerm Review*
2. General Training 1 at IREPA Laser = Dec 2020
 - *Safety, ethics, and society*
3. Specialized Training 3 at Mainz = Jun 2021
 - *Nuclear chemical techniques and laser resonance ionization laboratory training*
4. Specialized Training 2 at Jyvaskyla = Oct 2021
 - *Advanced techniques for the production and study of actinides*
5. **Summer Schools 1&2 by GANIL & Groningen = 28 Aug-9 Sept 2022**
 - *From the nucleons to the stars 28 Aug – 2 Sep1 2022*
 - *Structure of complex atoms 4 – 9 Sept 2022*
6. Specialized Training 4 at Jena = ~~Jun~~ **Nov** 2022
 - *Advanced computational techniques*

Summer schools

Register now!!

From nucleons to the stars

Structure of complex atoms



- Planning and programmes have gone through many iterations because of the pandemic
- Major delays to start the logistic planning until we were out of the pandemic resulted in limited options and locations → 2 separate locations (one by the beach, one in land)
- Proximity to GANIL and its scientific for an on-site visit of many facilities
- Exciting academic lectures, testimonies, panels...
- And your contributions at the poster sessions!!

Continued education

ICDP & training opportunities

ICDP review

- Individual Career Development Plans are up for review!
- They should be checked with the supervisor every 6 months or so to see whether the ESR is on track with their initial guess.
- An update based on the **template on Sharepoint** should be sent to the Training Office once a year.
 - Next review by the Jena Training

LISA CAREER DEVELOPMENT PLAN

ESR			
ESR#	Last Name	First Name	Title
Employer		Academic institution (if different)	
SUPERVISOR			
Main promotor	Last Name	First Name	Title
Academic promotor	Last Name	First Name	Title
PROJECT BREAKDOWN [100%;180ECTS]			
Main research	Secondment	Training & Mentoring	Dissemination & Outreach
Project title			WP#
Project milestones (e.g. simulations, experiments, publication, conferences, defense, ...)			Progress %

SECONDMENT (if achieved)			
Institution	Supervisor	Start date	Duration
Project title			WP#
Achievements (e.g. simulations, experiments, publication, ...)			Progress %

TRAINING & DEVELOPMENT PLAN			
OBJECTIVES	Progress %	Adjustments	TIMELINE
RESEARCH SKILLS			
LANGUAGE, WRITING & COMMUNICATION			
MANAGEMENT & FUNDING			
NETWORKING			
OUTREACH ACTIVITIES			
Activity	Audience Reached	Comm & Outreach	

PhD Label

Our first graduate!



Advances in laser spectroscopy of superheavy elements: Resonance ionization spectroscopy on $^{253,254,255}\text{Es}$ and a new gas-jet based high-resolution spectroscopy setup (JetRIS)

Steven Nothhelfer

PhD thesis, successfully defended may 06, 2022

This research was supported by the U.S. DOE, Office of Science, BES Heavy Element Chemistry program. The isotopes used in this research were supplied by the U.S. DOE Isotope Program, managed by the Office of Science for Nuclear Physics.

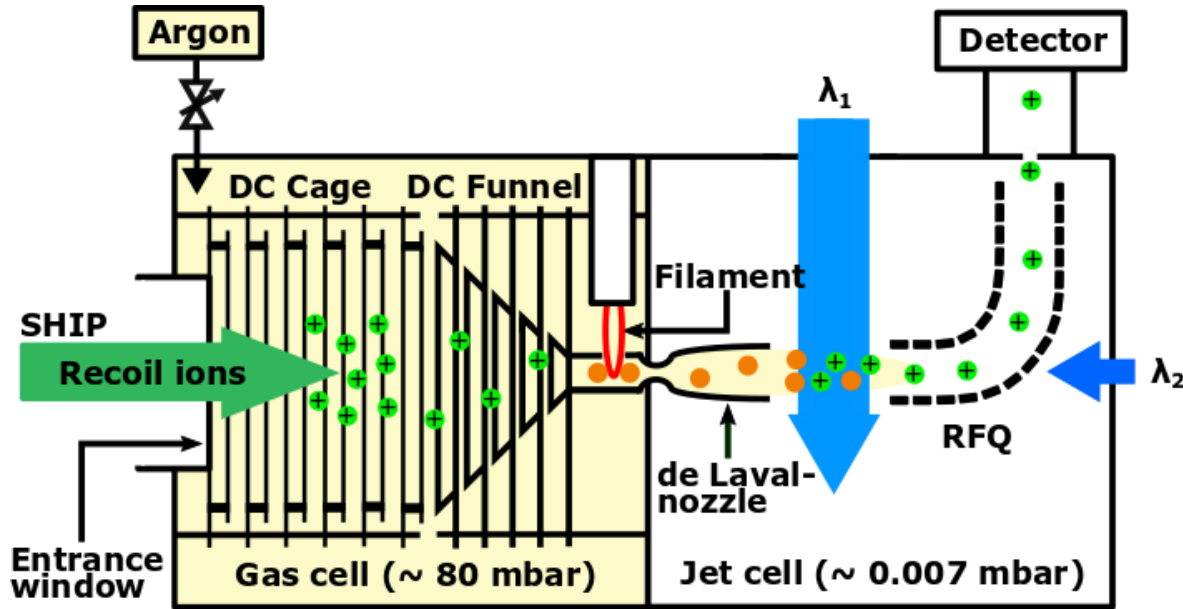


GSI Helmholtzzentrum für Schwerionenforschung GmbH



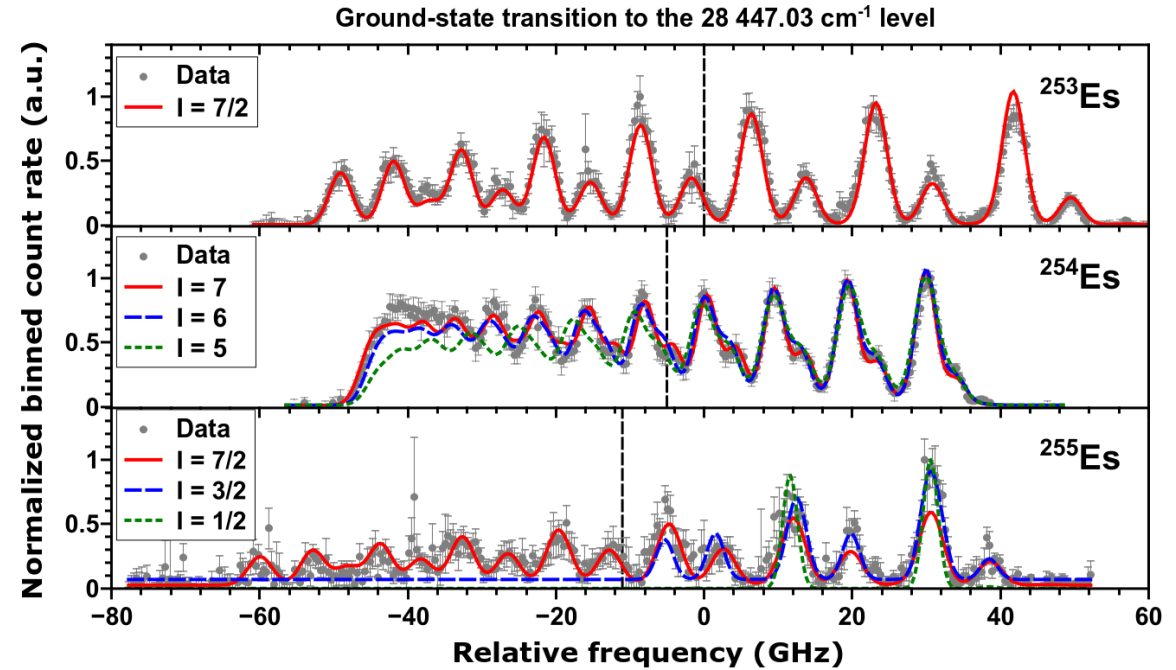
JOHANNES GUTENBERG
UNIVERSITÄT MAINZ





- Advantages compared to RADRIS (state-of-the-art)
 - Faster extraction times → Access to shorter $t_{1/2}$
 - Higher spectral resolution → $\sim 215(35)$ MHz

S. Raeder et al., Nucl. Instrum. Methods Phys. Res. B, 463, 2020, 272-276.



- HFS in 5 ground-state transitions, 4 solely in ^{254}Es
 - Nuclear spins and electromagnetic moments (μ , Q_s)
 - Single particle configuration and Nilsson orbitals

S. Nothhelfer et al., Phys. Rev. C, 105, 2022, L021302.

Milestones & deliverables

Ref	Timeline	Description	Progress
D6.1	M10 – Aug 2020	Individual Career Development Plans	28/12/20
D6.2	M14 – Dec 2020	Enrolment in PhD programs	16/03/21
MS28	M16 – Feb 2021	Compatibility of training program with the different doctoral schools	16/03/21
MS29	M26 – Dec 2021	Midterm review of progress of ICDP	pending
D6.3	M38 – Dec 2022	Open training events	ongoing
D6.4	M48 – Oct 2022	PhD award	-

For more information, don't hesitate to contact us!

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