

# EURO-LABS

## Basic Training School 2026

IFIN-HH, Bucharest-Magurele, Romania

11- 23 May 2026

Dr. Alexandra Spiridon – Org. Com. chair

<https://indico.nipne.ro/event/429/overview>



*This project has received funding from the European Union's Horizon Europe Research and Innovation programme under Grant Agreement No 101057511.*



## EURO-LABS – EUROpean Laboratories for Accelerator Based Science

**PROGRAMME:** Horizon EU (Research infrastructure services to support health research, accelerate the green and digital transformation, and advance frontier knowledge)

**DURATION:** September 2022- August 2026 (4 years)

**TOTAL BUDGET:** 14.5 M€

### GOALS

1. Provide efficient **transnational access** to the available resources at a major fraction of EUROpean Laboratories for Accelerator Based Sciences (EURO-LABS)
2. Enhance **collaborative targeted improvements** for the existing services
3. Make the **results freely available** to the scientific community
4. Organize the **training** of the new generation of researchers



# BTS26



Courtesy Google Earth



**CONSORTIUM:** 33 participants from 18 countries



*This project has received funding from the European Union's Horizon Europe Research and Innovation programme under Grant Agreement No 101057511.*



# BASIC TRAINING SCHOOL 2026 (BTS26)



May 11-23, Bucharest-Magurele, Romania



Topics and hands-on activities include:

- Target preparation techniques
- Vacuum technology for accelerators and special detectors
- Work with various gamma-ray and particle detectors
- Experiments at the 1 MV, 3 MV and 9 MV tandems
- Calibration of the detectors used
- Electronics setups and Data Acquisition systems
- Visit and measurements in an ultra-low background laboratory
- Guided visits to other major facilities of IFIN-HH



**Chair:** Alexandra Spiridon  
**Members:** Dana State, Razvan Lica, Mihai Straticluc, Livius Trache, Constantin Mihai



# 25 participants from 15 countries

- Germany (1)
- Portugal (1)
- Spain (4)
- Romania (5)
- Turkey (1)
- South Africa (2)
- Italy (2)
- India (1)
- Hungary (1)
- United Kingdom (3)
- Sweden (1)
- Lithuania (1)
- Greece (1)
- Netherlands (1)
- France (1)



# Useful details

- While on the premises, including dormitory, please respect all common-sense rules and the rules of IFIN-HH regarding work safety and radiation protection
- Today we start with a Welcome by institute's Management
- Followed by the mandatory – by law – work safety and radiation protection instructions – pay attention
- Will proceed by the poster session (one floor above): each will install her/his poster and will be allocated 5 min to explain it to your colleagues
  - Before the end of the day, you'll receive the money for your subsistence support as per EURO-LABS rules
  - Be careful with your trip from/to the dormitory; you need ID to re-enter IFIN-HH each morning and make sure you are in time
  - Lunch at one of either two buffets: one close to the IFIN-HH gate, another at ELI-NP
  - You manage yourselves the breakfasts and dinners – care for keeping the kitchen clean
- You are split in 4 working groups of 6 students each and will follow the program posted on the indico website
- As per our aim, this is going to be a hands-on event, support will be available. Ask questions!
- Will work mostly at the 3 accelerators; visits are scheduled to the other large installations of IFIN-HH

# Participants have been split into 4 groups:

(the groups have been posted on indico as well, and are color coded with your lanyards)

Alexandru-Valentin Avram
Giulia Maria Falciglia
Hussain Aleinieh
Joshua Sharpe
Judith Reyes
Mircea George Coman

Ana Sofia Sousa
Cayetano Soneira Landín
Cristina Adriana Humă
Manfred Jaftha
Wenxuan Zheng
Zoi Bari
Rambabu Mourya

Carlos Muñoz Ortega
Emre IREN
Gunjan Gaur
Maria Alexandra Boboaca
Michał Włodarczyk
Salma Ouafiki
Andrei Fritea

Alina Didik
Geneva April
Jisk Knijpstra
Sofía Iparraguirre García de la Rosa
Teodora-Maria Zama
Vilius Žalėnas

Timetable on indico: <https://indico.nipne.ro/event/429/timetable/>

(\*check it regularly, as changes will be updated there)

(\*currently, only the first week is uploaded as we're still finalizing some details for the second week)

week 1		Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		11-Ma	12-May	13-May	14-May	15-May	16-May
09:00	10:00		Welcome to BTS26 (15-20') About IFIN (15') Safety Course (20'+15')	Target lab	RBS	Exp	
10:00	11:00	ARRIVAL	Poster Session	visit and	Irradiation	1 MV	TRIP TO SLANIC
11:00	12:00	DAY	Poster Session	activity	3 MV	3 MV	ALL GROUPS
12:00	13:30		Lunch	Lunch	Lunch	Lunch	
13:30	14:30		Visit 1MV	More visits?	Sample	Data	
14:30	15:30		Visit 3MV	DFH	preparation	1 MV	
15:30	16:30		Visit 9MV	activity	3 MV	3 MV	
16:30	17:30		Visit IRASM				
week 2		Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		18-Ma	19-May	20-May	21-May	22-May	23-May
09:00	10:00	ELI-NP	Visit	Exp	DAQ	Exp	Group presentations
10:00	11:00	visit (~2 hr)	DUROCERN	9 MV	Analysis	9 MV	@sala tandem
11:00	12:00	Lecture (Alessini)					DEPARTURE
12:00	13:30		Lunch	Lunch	Lunch		DAY
13:30	14:30	About Euro-Labs - Livius T	Koll - Overview AMS	Data	Data	Exp	Farewell "party"
14:30	15:30	Guardo - NA for Astrophys	Intro to 9 MV Exp and setup preparation	Analysis	9 MV	9 MV	@sala tandem
15:30	16:30	Vacuserv	Canberra				
16:30	17:30						

**Multipurpose Irradiator Facility (IRASM)**

**Hadron Physics Department (DFH)**

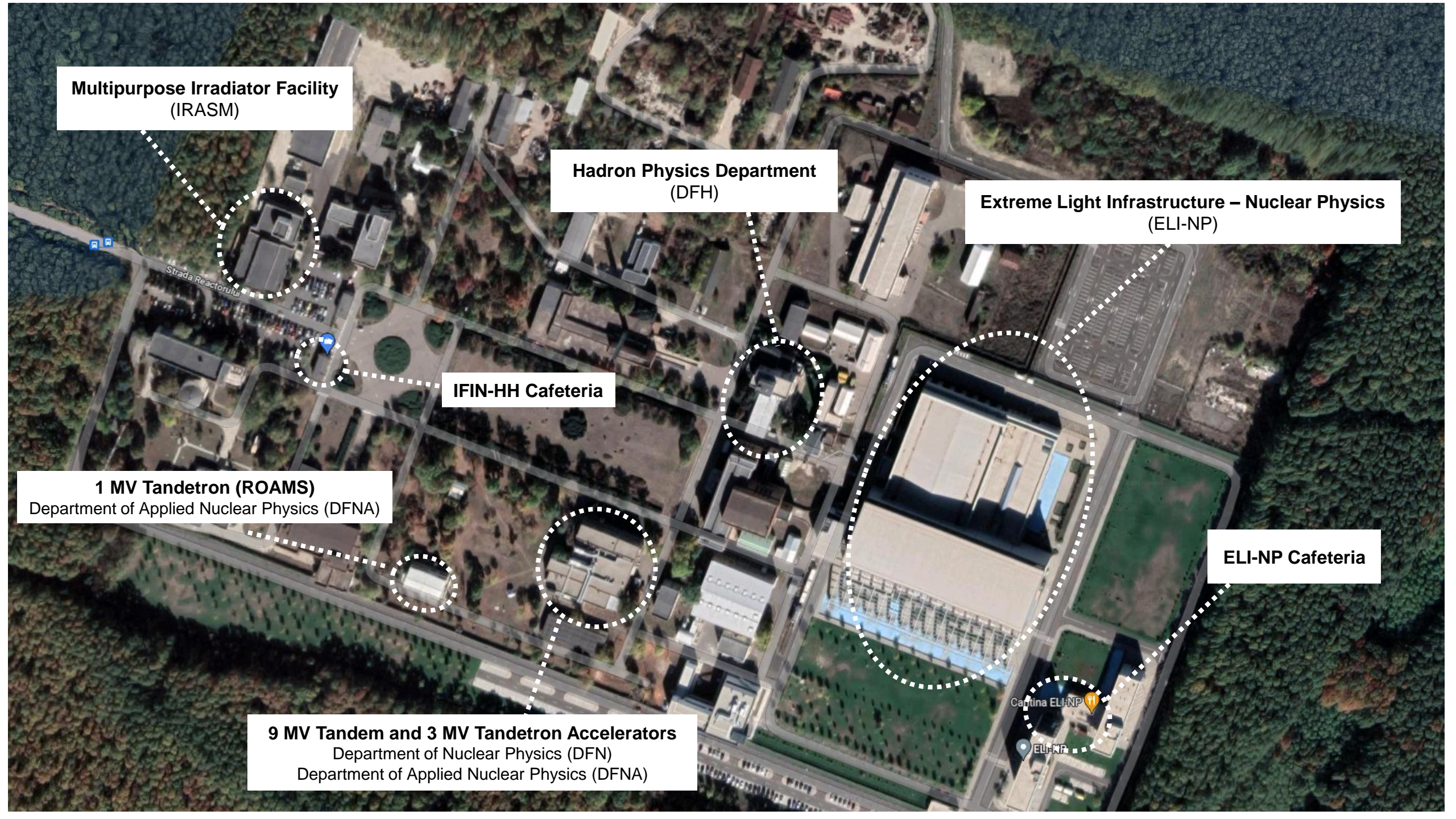
**Extreme Light Infrastructure – Nuclear Physics (ELI-NP)**

**IFIN-HH Cafeteria**

**1 MV Tandetron (ROAMS)**  
Department of Applied Nuclear Physics (DFNA)

**ELI-NP Cafeteria**

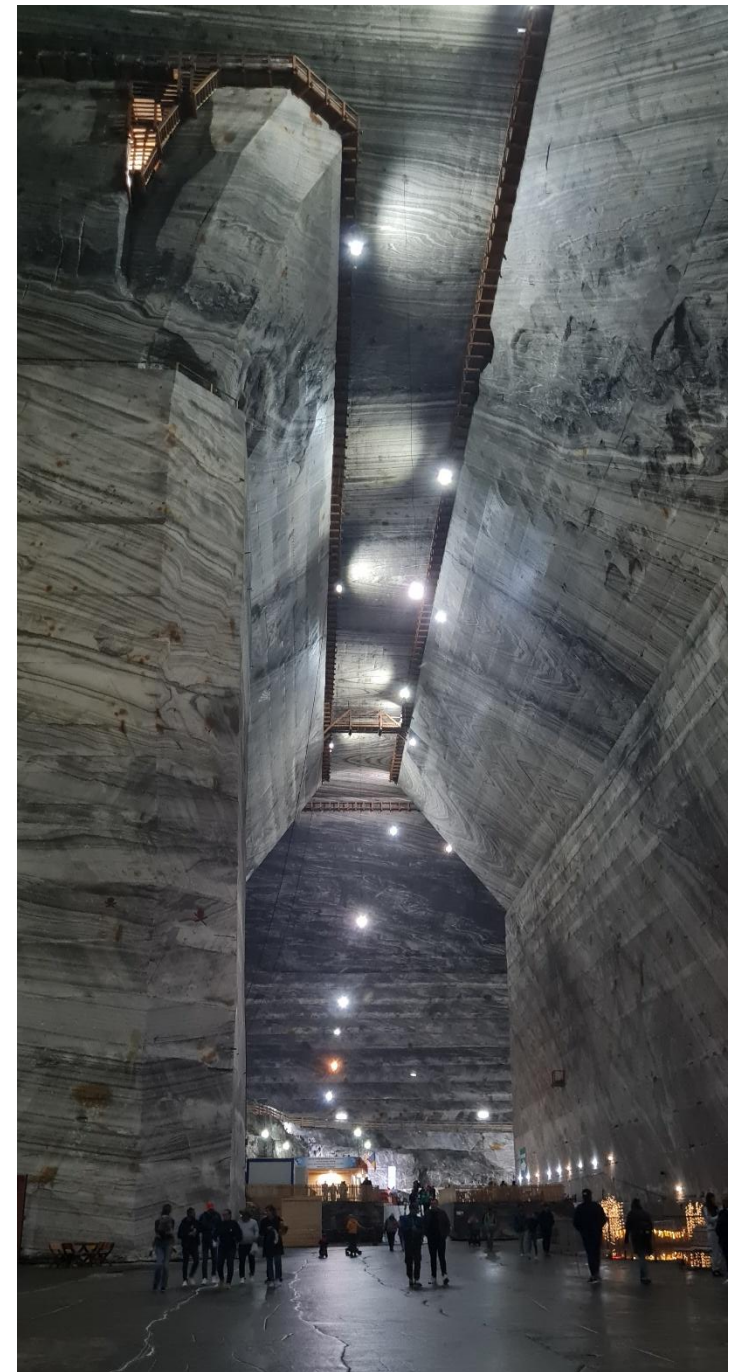
**9 MV Tandem and 3 MV Tandetron Accelerators**  
Department of Nuclear Physics (DFN)  
Department of Applied Nuclear Physics (DFNA)



# Saturday, 17 May

## Visit to Slanic Salt Mine and the $\mu$ Bq laboratory

- Dress warmly!!!
- Bring a light jacket or at least a hoodie
- We will depart early, likely ~7 a.m.
- Final details will be communicated to you on Thursday



# Few reminders

- You must be accompanied by an IFIN-HH employee at all times inside the institute
- In order to process your meal stipend / daily allowance, we need daily signatures from you to confirm your presence
- For travel reimbursement (EU participants), please send/give us the necessary documents by Friday, 15 May
- At the end of BTS26, on Friday May 22<sup>nd</sup>, a report will be presented by each team (2-3 speakers) with a summary of all the activities, your results and your personal feedback.
- An anonymous survey will also be sent to each participant to review their experience at BTS26, helping EURO-LABS improve the future editions.

# Useful to know/meet

- Here are those that can assist and help you throughout your stay:
  - Alex Spiridon
  - Dana State
  - Mihai Straticiuc
  - Razvan Lica
  - Andrei Turturica
  - Ana Maria Stefanescu
  - Decebal Iancu
  - Ion Burducea
  - Radu Andrei

