EURO-LABS Basic Training School 2026 – BTS26

May 11 - 23, 2026 at IFIN-HH Bucharest- Magurele, Romania

First circular

EURO-LABS (https://web.infn.it/EURO-LABS/) is a network of 33 research and academic institutions from 18 countries (25 beneficiaries and 8 associated partners) from European and non-EU countries, involving 47 Research Infrastructures (RI) in the Nuclear Physics, Accelerators and Detectors for high energy physics pillars. The project brings together, for the first time, these three research communities in a pioneering super-community of sub-atomic scientists. Within it, EURO-LABS ensures diversity and actively supports researchers and research groups to use its RIs. Its main goal is to provide effective access to the network of 47 Research Infrastructures (including 3 RIs with Virtual Access) to conduct curiosity-based research, addressing fundamental questions and technological challenges and advancing projects with broad societal impact, fostering knowledge sharing between scientific fields and enhancing Europe's potential for successfully facing future challenges.

The community recognizes that it needs to pay attention to improve the efficiency of use of RIs, now and in the future, through training for new users and young researchers. It has been decided to organize a system of training activities, at various levels, starting with annual Basic Training schools and Advanced Training schools, organized by members of the project. EURO-LABS also co-sponsored several traditional schools organized by the rest of the community.

So far, three Basic Training Schools (BTS) have been successfully organized:

- **BTS23 at IFIN-HH, Bucharest-Magurele, Sep. 2023**
- **BTS24 at HIL and CNST, Warsaw, June 2024**
- **BTS25 at CNA Seville, June 2025.**

Here we announce the **Basic Training School of 2026 - BTS26, May 11 - 23, 2026**, to be organized at **IFIN-HH, Bucharest-Magurele, Romania**. It will involve **hands-on activities** around the tandem accelerator complex of IFIN-HH:

1. Target preparation laboratory.
2. High vacuum technology for accelerators and special detectors.
3. Use of some of the most widely employed gamma-ray and particle detectors: HPGe, $LaBr_3$(Ce) in ROSPHERE, neutron detectors, scintillators, simple and multistrip Si detectors.
4. DAQs; types of accelerator experiments.
5. Manning experiments at the 9 MV, 3 MV and 1 MV (RoAMS) tandems (2 days each)
6. Calibration of the accelerator and of detectors used.
7. Radiocarbon dating at the RoAMS facility.
8. De-activation measurements in an ultra-low background laboratory of IFIN-HH located in a salt mine 125 km North of Magurele.
9. Dedicated detectors and electronics for large hadron physics experiments.
10. Guided visits to other major facilities of IFIN-HH: HPD, IRASM, ELI-NP, etc.

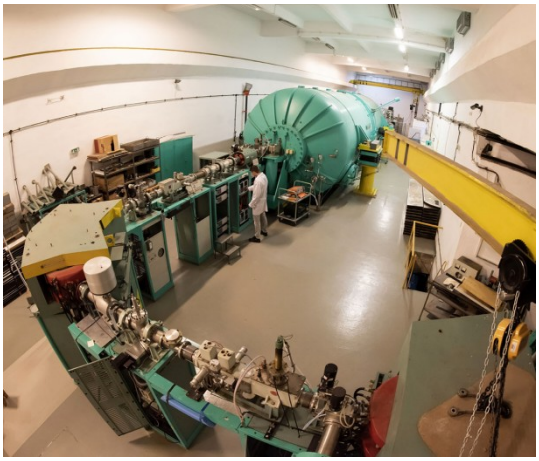
Beamtime at each tandem accelerators is being reserved through PAC applications for use during school.

A number of **24 students (trainees)** will be selected for a period of 12 days. Master and PhD students, as well as early years post-docs are invited to apply.
To apply, **register online by March 15, 2026**, at https://indico.nipne.ro/event/429/ or write to bts26@nipne.ro, including a letter describing your activities and a letter of support from your advisor. An international committee will select the participants according to applications.

Trainees' participation will be entirely financed by EURO-LABS: travel with economy class within Europe, accommodation and subsistence support. Trainers will be local and international. Students from outside-Europe institutions will only be granted local expenses.

Organizers:
Alexandra Spiridon (chair), Mihai Constantin, Razvan Lica, Elena Moroianu, Dana State, Mihai Straticiuc, Livius Trache et al.

BTS23 participants



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