

Basic Training School on Accelerator Applications in Nuclear Physics – BTS25



June 3rd – 9th, 2025, Seville, Spain



First Circular

We announce the third **Basic Training School on Accelerators BTS25** in the framework of the EU project **EURO-LABS** (Grant Agreement No: 101057511).

BTS25, is organized by the **Centro Nacional de Aceleradores (CNA)** and the **University of Seville (US)**, will take place in **June 3rd – 9th, 2025**, Seville, Spain. **BTS25** will involve hands-on training using the 3 MV tandem accelerator, the 1 MV tandetron accelerator and the 18/9 MV cyclotron. The purpose is to give participants a basic knowledge and develop experimental skills related to accelerators applications in nuclear physics.

- Use of Ion Beam Analysis (IBA) techniques for nuclear targets characterization
- Determination of radioactive isotopes in nature by Accelerator Mass Spectrometry (AMS)
- Proton beam performance and characterization for Medical Physics applications
- Production and use of neutron through an accelerator-based neutron source
- Experimental accelerator measurement preparation
- Use of particle detectors
- Data acquisition and analysis

Participants: Up to 20 Early Stage Researchers (early PhD students or last year master degree students) will be selected and will receive hands-on training on different accelerator related techniques.

How to apply: To apply, register online at <https://indico.cern.ch/e/BTS25>. The applicants must send a brief CV with a description of their scientific experience and a letter of recommendation from their supervisor.

Important dates:

- **2nd March 2025** deadline for application
- **24th March 2025** information on selected participants

Financing: Participants on BTS25 will be fully funded by EURO-LABS, including economy class within Europe, accommodation and meals.

Local Organizing Committee:

Begoña Fernández (chair)(US-CNA), Francisco Javier Ferrer (co-chair)(US-CNA), Joaquín Gómez Camacho(US-CNA), Jose Manuel Espino (US-CNA), Elena Chamizo (CNA), Mercedes López (US-CNA)

International Advisory committee:

Livius Trache (IFIN-HH), Maria José García Borge (IEM-CSIC), Adam Maj (IFJ), Gastón García (CMAM-UAM), Victoria Corregidor (IPFN), Sandor Biri (ATOMKI).



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