CALL FOR PROPOSALS OF EXPERIMENTS WITH THE 3.5 MV ACCELERATOR OF THE BELLOTTI ION BEAM FACILITY OF LNGS

Researchers interested in performing experiments with the 3.5 MV Accelerator of the "BELLOTTI Ion Beam Facility" of LNGS in 2026 are invited to submit a written proposal to the Program Advisory Committee (PAC).

The deadline for submission of written proposals is August 31, 2025. The proposal shall follow the Template provided in attachment 1.

Proposals must be submitted as pdf file to the e-mail address: Bellotti-IBF-PAC@lngs.infn.it.

No other means of submission will be accepted.

The proposals will be sent to the PAC for the evaluation.

Applicants may be asked to give an oral presentation of their proposal.

For any information concerning the beams available at the Bellotti IBF, please visit the LNGS web site at: https://l.infn.it/bellotti.

For information on the experimental facilities, the beam lines and the experimental halls, please contact the head of the Accelerator Service, Dr. Matthias Junker, junker@lngs.infn.it.

Prof. Ezio Previtali
Director of Laborato ran Sasso

Ezio Previtali
Firmatario: Ezio Previtali
Data: 11/07/2025 20:11:29
GMT

Bellotti Ion Beam Facility, LNGS
Application for Experimental Time

Detailed Proposal

[Please feel free to repeat information from the Science Part / Project Description as necessary.]

Title of Experiment
[…]

Name of the PI, participants and institutions
[…]

Short abstract and scientific motivations (max. 3 pages)
[…]

Objectives of the Experiment (max.
[…]

Expected Outcome
[…]

Experimental Setup
[…]

Requested Beam Type and Current
[…]

List of Target Materials to be Used
[…]

Possible Safety Considerations
[e.g. hazardous materials]

Justification of the requested beam time length (e.g. from the estimated yields)
[Please provide a justified overview of the required beam parameters and estimated times needed for each beam parameter set.]

Justification of the need for low cosmic ray background (e.g. from the estimated yields)
[Please provide a justified overview how your experiments benefits from the low cosmic ray background at the Bellotti IBF.

Estimate of the neutron flux induced by the proposed experiment (e.g. from the estimated yields)
[Please provide a justified overview how your experiments benefit from the low cosmic ray background at the Bellotti IBF.

Results of Previous Access Times at Bellotti IBF (in case of previous projects)
[…]

Relation to Other Projects, Student Theses, etc.

[If this proposal is related to a thesis project, or other external projects, please note this here. In particular, if this affects the potential time line for conducting the project.]

Support for Travel and Accommodation

[If financial support for travel and accommodation is requested, please outline the planned travel (number of scientists, duration), and the total amount of support requested.]

Other information, special needs, remarks, etc.
[…]

Scheduling information

Preferred period for access time
[preferred or excluded periods for the proposers]
Requested beamtime
[in hours, total]

Check List

Please double-check that your experimental plan includes the following information:

- ☐ Aim of the project in short
- ☐ Ion beam species, energies, intensities
- ☐ Total duration of the project (access time)
- ☐ Equipment that you bring to the facility
- ☐ Preferred time slot for scheduling this access
- ☐ Required instruments of the facility
- ☐ Required equipment to be provided by the facility