Istituto Nazionale di Fisica Nucleare
LABORATORI NAZIONALI DEL GRAN SASSO
Il Direttore

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

Researchers interested in performing experiments with the 3.5 MV Accelerator of the "*BELLOTTI Ion Beam Facility*" of LNGS, in the period from **March 11 – to December 7, 2024**, are invited to submit a written proposal to the Program Advisory Committee (PAC).

The proposal text shall include:

- title;
- name of the PI, participants and institutions;
- short abstract and scientific motivations (max. 3 pages)
- all relevant aspects of the experimental procedure including:
  - descriptions of the experimental setup including the list of equipment to be installed.
  - list of materials to be used, including Safety Data Sheets (SDS) according to REACH regulation of the EU (Registration, Evaluation, Authorization and Restriction of Chemicals);
  - estimate of the neutron rate induced by the experiment as beam induced background. Please note the maximum allowed neutron flux INSIDE the accelerator rom is 2000 n/s.
- bibliographic references.

The number of requested Beam Time Units (BTU) shall be justified in detail. 1 BTU corresponds to 6 hours of beam on target.

If the proposal concerns continuation of an experiment previously approved by the PAC of the "*Bellotti Ion Beam Facility"*, a written status report of the obtained results together with the publication list produced with the previously assigned BTU, must be submitted with the proposal.

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 deadline for submission of written proposals is **October 30, 2023.**

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

Applicants will 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 the Head of the Accelerator Service, Dr. Matthias Junker, junker@lngs.infn.it.

Il Direttore dei LNGS
Prof. Ezio Previtali