Second Meeting on “Targets for Nuclear Physics” within EURO-LABS

18-19 May 2026

GSI Helmholtzzentrum für Schwerionenforschung, Darmstadt

FIRST CIRCULAR

The EUROpean Laboratories for Accelerator Based Science (EURO-LABS) project (https://web.infn.it/EURO-LABS/) brings together the research communities of nuclear physics, accelerator and detector technologies for high energy physics, in a pioneering super-community of sub-atomic scientists. It received funds by the European Union’s Horizon 2020 Research Infrastructure services advancing frontier knowledge under Grant Agreement no. 101057511.

EURO-LABS is a network of 33 research and academic institutions from 18 European and non – EU countries, involving 47 Research Infrastructures, ensuring diversity and actively support researchers from different nationalities, gender, age, grade, and variety of professional expertise.

The scientific community involved in the development and use of targets for nuclear physics experiments has benefited from funding provided through EURO-LABS WP2-5-2 “Targets for Nuclear Physics.” This subtask is part of Work Package 2 (WP2), “Access to Research Infrastructure for Nuclear Physics,” and specifically falls under Task 2.5, “Service Improvements.” The initiative was originally established as a joint project among institutions from France, Germany, Italy, Poland, Portugal, Romania, and Switzerland. The collaboration remains open to additional interested partners.

The main goal of the “Targets for Nuclear Physics” subtask of the EURO-LABS programme is to bring together the community of nuclear target makers, with expertise in target manufacturing and characterization, both for nuclear and applied physics purposes. Different research areas and applications require high quality targets, ranging from fundamental physics and specific targets for charge-strippers and neutron converters, up to the development of isotope-enriched targets for high quality standard medical radioisotope production. Target preparation is often a crucial step on the path towards the success of nuclear physics experiments, or specific final nuclear “products”. The recent availability of high-intensity beams at different accelerator facilities in Europe and all over the world pushes the requests for demanding targets, which are resistant to high intensity ion beams while maintaining their characteristics in terms of thickness, uniformity, isotopic enrichment, thermal properties etc.

The first meeting of the collaboration was held online on 15 May, 2025 (https://agenda.infn.it/event/46874/). Following the outcomes of this meeting, an in-person workshop will be organized at GSI, Darmstadt, Germany, on 18-19 May, 2026. Updated details can be found at https://indico.in2p3.fr/event/39016/.

The aim of the 2026 workshop is to provide an informal opportunity to learn about the work of each group within the European community of target makers, developers, and users, in order to strengthen our links and enhance synergies, in line with the objectives of EURO-LABS. The EURO-LABS project will conclude at the end of 2026, so this meeting would be one of the last opportunities to benefit from such networking and, in case, to propose common activities or future projects.

The workshop sessions will be dedicated to the presentation of recent studies and results obtained at the different laboratories, as well as to in-depth discussion of the challenges in the field.

On May 19 morning, a tour of GSI and a visit to the target laboratory is planned.

VENUE

The meeting will take place at GSI Helmholtzzentrum für Schwerionenforschung, in Darmstadt (Germany). It will be held in the lecture hall of the KBW office building (KBW 1.17).

Detailed information on how to reach GSI and accommodation, can be found on the workshop web site: https://indico.in2p3.fr/event/39016/page/4945-travel-accomodation.

REGISTRATION & ABSTRACT SUBMISSION

Participants are invited to register using the registration form available on the web site.

IMPORTANT DATES

- **Start** of **Registration**: **5 March, 2026**
- **Deadline** for **registration**: **30 April, 2026**
- **Start** for **abstract submission: 5 March, 2026**
- **Deadline** for **abstract submission: 30 April, 2026**
- P**reliminary program** available on **11 May, 2026**

SOCIAL DINNER AND MEALS

- The Participants of the workshop have the opportunity to attend a joint **dinner** on **May 18**.
- Additionally, there will be the possibility to register for a **dinner** on the evening of arrival, on **May 17**.
- Lunches will be available at the GSI canteen.
- Please note that **lunches and dinners** are **at your own cost**!

FEE

No fee will be charged for the workshop participation.

WEB SITE AND CONTACTS

https://indico.in2p3.fr/event/39016/

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