EURO-LABS Advanced Training: Open Science and Data Management

24.-29. November 2024

Open Science is the practice of making scientific research output openly available in the form of data, software, publications, hardware and infrastructure. This promotes transparency, collaboration, and reproducibility in research, as well as wider access to knowledge for the public and to researchers.

Open Science represents an opportunity for the society at large and in particular for the physics community to improve the management and use of the large data sets produced in accelerator facilities around Europe and foster new collaborations. As a goal towards Open Science physics, the development of suited data workflow that could be shared among the physics European facilities would represent a major step forward. The data produced in these facilities should follow the F.A.I.R. principles (Findable, Accessible, Interoperable and Reusable) to ensure long term storage and possible future use by the community. The goal of the Advanced Training course is to convey basic principles and to demonstrate commonly used tools to achieve this goal successfully.

The Advanced Training will take place at castle Ebernburg (Germany) in the week 24.-29. November 2024.

An excursion is planned to visit the GSI Helmholtzzentrum für Schwerionenforschung and FAIR (Facility for Antiproton and Ion Research, that is presently under construction) in Darmstadt. The training participants have the opportunity to see the accelerator facility and various experiment setups as well as the FAIR construction site, in order to experience the inside of a nuclear physics research laboratory.

List of confirmed lecturers and topics:

- Antoine Lemasson (CNRS - GANIL) – Introduction to Open Science
- Florian Uhlig (GSI) – Tools for sustainable programming
- Ozlem Ozkan (Helmholtz Metadata Collaboration) – Metadata for beginners
- Johan Messchendorp (FAIR) – European infrastructures for Open Science
- Clemens Lange (PSI) – Open Science in HEP
- Adrien Matta (LPC Caen - CNRS) and Jérémie Dudouet (IP2I Lyon - CNRS) – Hands-on data challenge
- Kathrin Göbel (GSI) – Open technology transfer

Local organizers: Andrew Mistry (GSI/FAIR), Christine Hornung (GSI), Gerhard Burau (HGS-HIRe)

The school is open to PhD students, final year master degree students, and early career Postdocs. 25-30 participants will be selected from the applications. The applications can be submitted via the indico webpage.

Application deadline: 29th of September 2024

Information and registration:

> **Email:** euro-labs-school@gsi.de

> **Website:** https://indico.gsi.de/event/19808/

Venue and travel: The EURO-LABS Advanced Training will take place in the castle Ebernburg (https://ebernburg.de/) in Bad Kreuznach close to Frankfurt am Main, Germany, and can be reached by train (e.g. via Frankfurt airport). The participants will be accommodated in twin-bed rooms with full board from Sunday (24th of November) evening until Friday (29th of November) noon. Economy class travel within Europe, accommodation, and subsistence will be supported by EURO-LABS and HGS-HIRe.

Photo: Walter P. Lhotzky