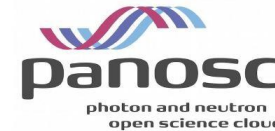


LENS WG4

Thomas Holm Rod (ESS), 12th September 2023

LENS WG4 – successful collaborations

- EU projects: PaNOSC & ExPaNDS
- Workshops and summer schools: MDANSE + several about ML and AI
- Software: SasView, Mantid, CrysFML/easyDiffraction, SpinW, etc.
- Data format: canSAS, ORSO, NeXus



Collaborations are often across LEAPS and LENS

LENS has an important role in representing neutrons in these collaborations



... and for sharing information across facilities

Workshops and summer schools

1. Nov 2019, ILL, Artificial Intelligence Applied to Photon and Neutron Science
2. Feb 2021, online, LENS Machine Learning School
3. Jun 2022, STFC, MDANSE Summer school
4. Oct 2023, SOLEIL hybrid, Leveraging open data from PaN facilities for machine learning

ILL 2019



STFC 2022

Community services



European Photon and Neutron Open Data Search Portal

Type a query to search for open data from photon and neutron sources:



... or try one of these queries: *diffraction, lung*

The European Photon and Neutron sources are working together in the PaNOSC and European Commission to build the **European Open Science Cloud**. One of the main **Open Data** from these facilities FAIR. This portal implements the F(indable) part of FA from the following facilities:

- European Synchrotron Radiation Facility
- European Spallation Source
- Institut Laue Langevin
- MAX IV
- Paul Scherrer Institut
- Central European Research Infrastructure Consortium
- European XFEL

The screenshot shows the Photon and Neutron Training portal. At the top, there's a navigation bar with 'Catalogue', 'E-learning', 'Events', and 'About'. A search bar is on the right. The main header features the 'Photon and Neutron Training' logo. Below it, a text block states: 'Training for photon & neutron science. Find educational material from institutes around Europe.' A list of resources is provided: 'We have: 192 materials (48 PaN E-learning courses and 144 other materials), 433 events and 11 workflows'. Four icons represent 'Materials', 'Events', 'Workflows', and 'Providers'. A 'Register new content' button is present. A sidebar on the left offers 'Access Courses', 'PaN-wiki', and 'Log on'. The main content area is titled 'E-Learning Courses' and describes online interactive courses. At the bottom, a section for 'Latest Content' lists an event from October 2023 in Strasbourg, France, with a calendar icon and the 'Laserlab Europe' logo.