

# The Training Portal for Photon and Neutron Data Services

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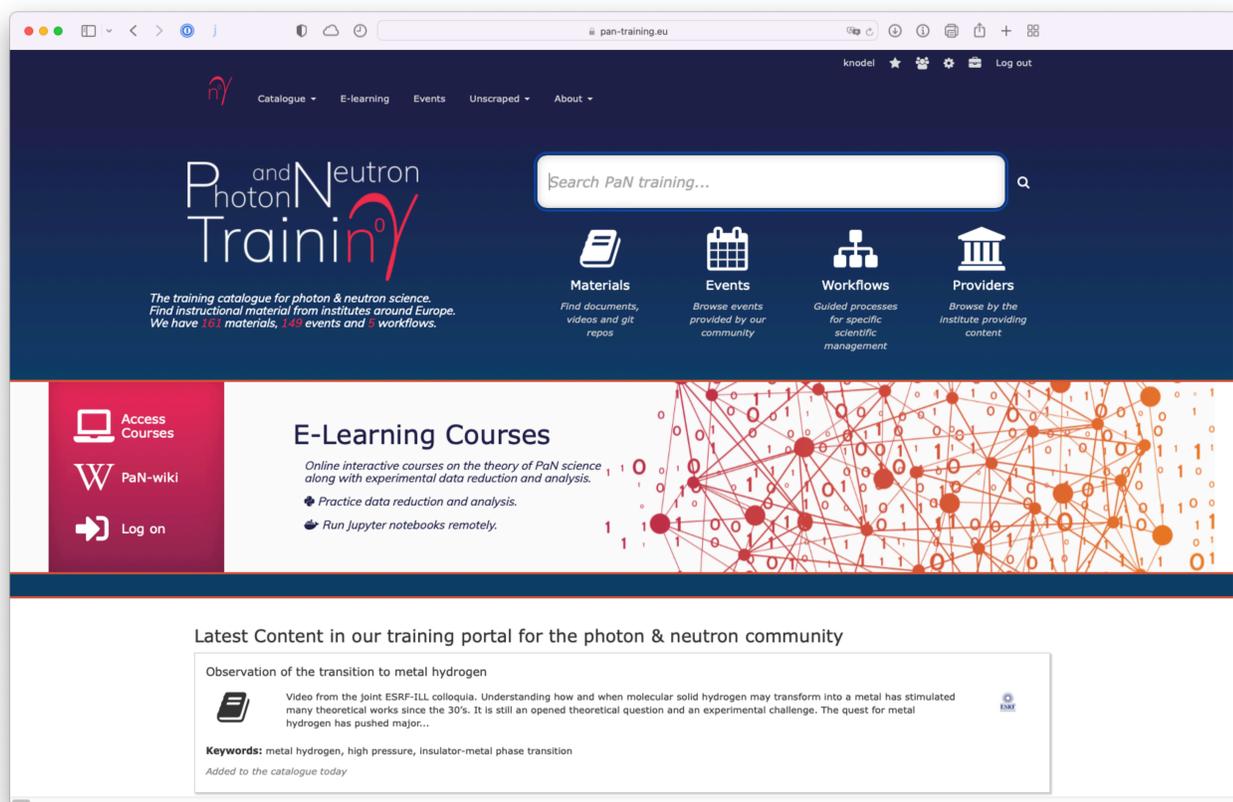


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## The Catalogue: [pan-training.eu](https://pan-training.eu)



Education is becoming an increasingly important topic to help scientists work on photon and neutron sources. Other relevant areas such as advanced quantum technologies will also play a key role in the future.

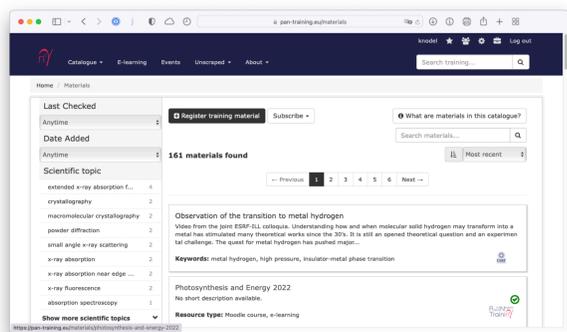
One of the goals of ExPaNDS (European Open Science Cloud (EOSC) Photon and Neutron Data Service) is to train research scientists in order to better understand the issues, methods and available computational RI infrastructures to address critical research questions.

Our PaN-training catalogue provides a one-stop shop for trainers and trainees to discover online information and content:

- For trainers the catalogue offers an environment for sharing materials and event information.
- For trainees, it offers a convenient gateway via which to identify relevant training events and resources, and to perform specific, guided analysis tasks via training workflows to provide FAIR research.

## Training Material and Events

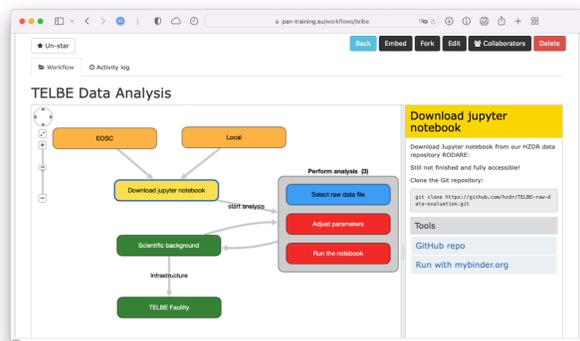
Materials in our training catalogue can be accessed at any time. These may be in a variety of different formats, including online tutorials, videos, presentations, and so on.



A significant portion of the content is harvested from our e-learning platform developed in the PaNOSC project, but also from third-party sources like LEAPS and LENS.

## Training Workflows

An essential feature in our training catalogue are graphical training tools or *Training Workflows*. The main types of workflow are: Educational Resources, Learning Pathways and Experiment Maps. These encapsulate different types of, and/or approaches to, training, at different levels of granularity.

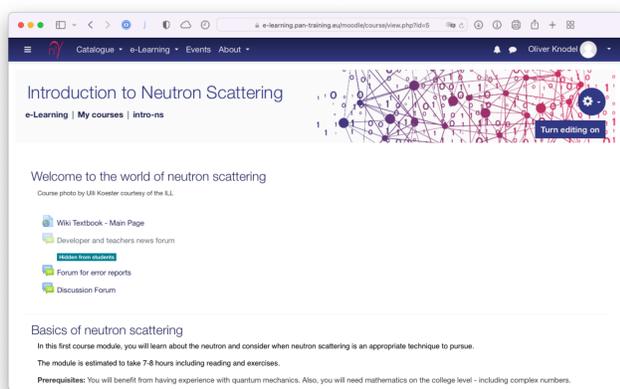


## Integrated E-Learning Platform

Our associated e-learning platform hosts free education and training for scientists and students with an integration of Jupyter notebooks.



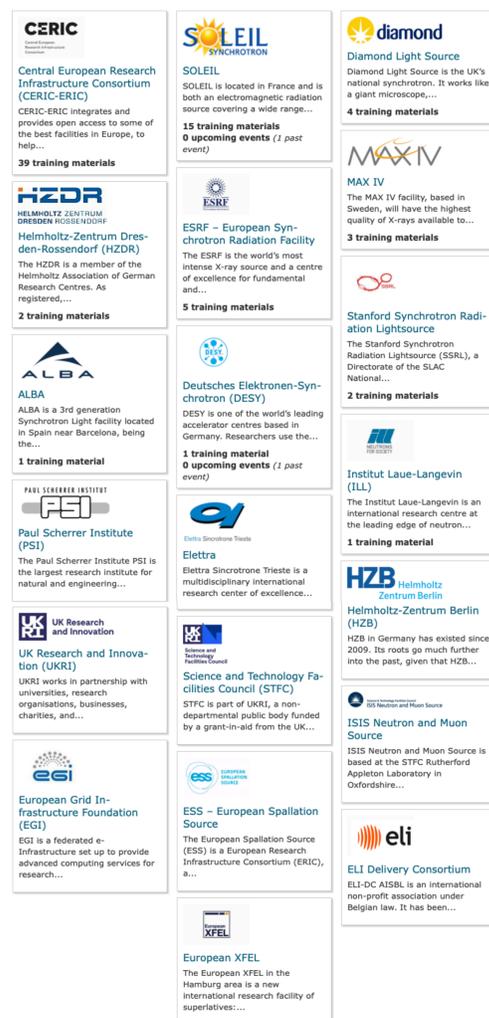
The e-learning platform was developed in the PaNOSC (Photon and Neutron Open Science Cloud) project and is available at: [e-learning.pan-training.eu](https://e-learning.pan-training.eu)



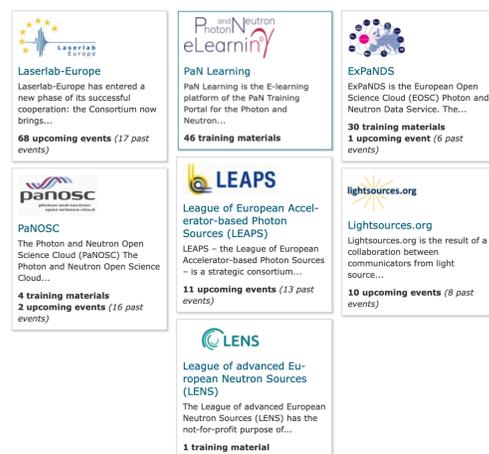
## Content Providers

Content providers are entities (such as academic or research institutions, non-profit organisations, portals etc.) that provide training materials of relevance to the PaN community.

## Organisations



## Projects and Portals



## Acknowledgements

The catalogue team would like to acknowledge the provision of the initial TeSS code from ELIXIR, and thank them for such a beautiful project.

