ExPaNDS

European Open Science Cloud Photon and Neutron Data Services

# The Training Catalogue for Photon and Neutron Data Services

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Our Contribution to Training and Learning

- The **lack of a central platform for PaN teaching and learning** has been identified by the PaN facilities.

- We evaluated available, **state of the art technologies for teaching** and data collection platforms (D5.1 10.5281/zenodo.5171766).

- We have recognised that a simple, **openly accessible catalogue** of materials, where anyone can add relevant content for the community, is particularly important.

- We introduced a PaN training **catalogue** and an e-learning platform:
  — to **collect existing material**,
  — to **announce events** and
  — to **create/store courses**.

- We are **re-using** successful projects developed by:
  — **Elixir** (TeSS),
  — **SINE2020** e-neutrons and
  — **AAI: UmbrellaID/eduTeams**.
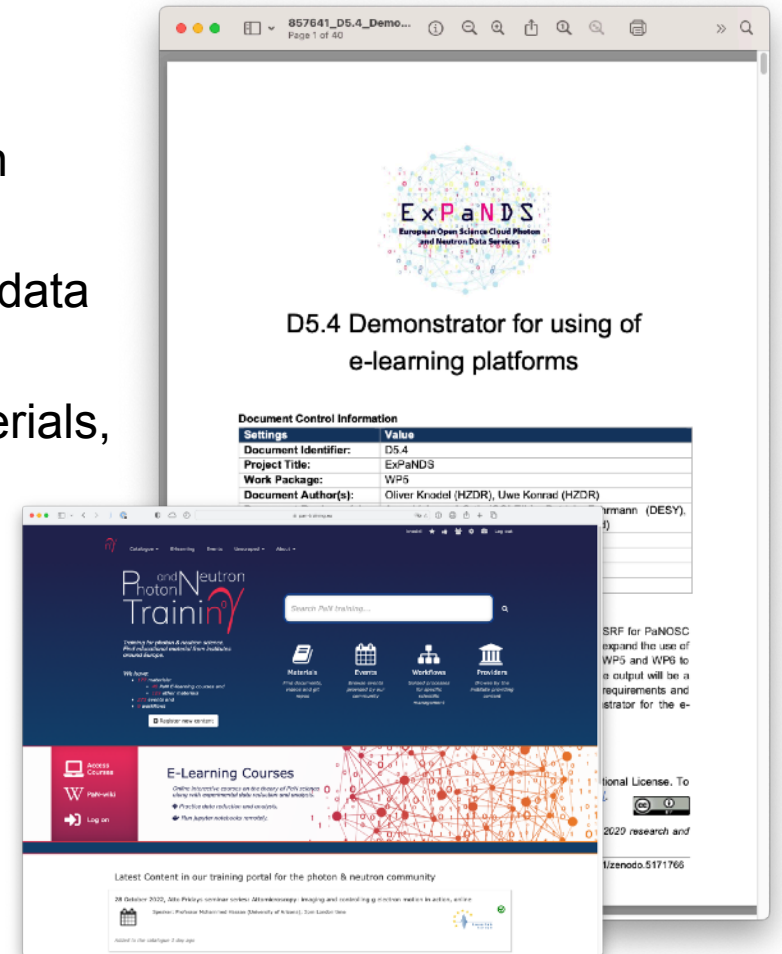
PaN Training Catalogue and E-Learning Platform
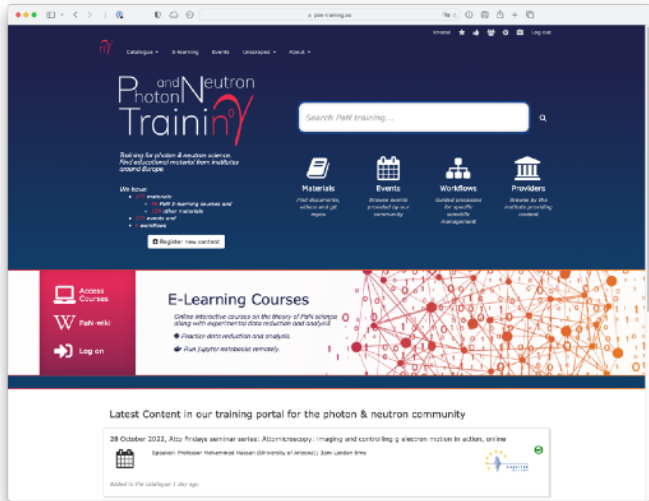
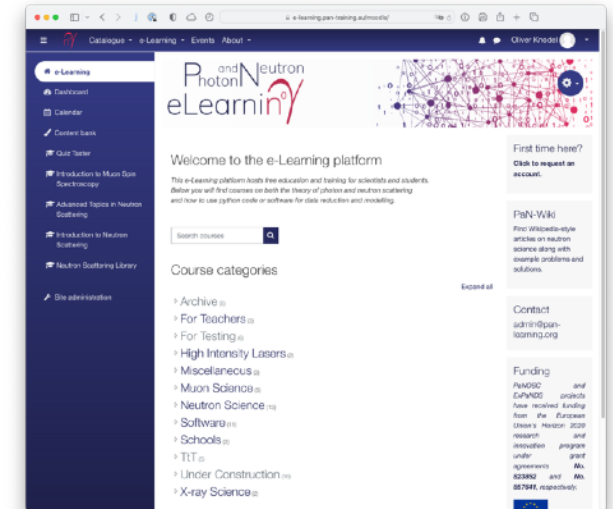## ExPaNDS

pan-training.eu → **e-learning.pan-training.eu**

Central place to access all ExPaNDS / PaNOSC training **materials** and our **e-leraning platform**, define training **workflows** to guide the scientist through the materials, **harvest events** and other e-learning platform courses from external providers or PaN RIs:

- Website,
- GitHub,
- Video (youtube),
- Training datasets, (from Zenodo)
- Workshop minutes,
- …

panosc

The central e-learning platform for blended learning courses with PaN content and additional features:

- Jupyter notebook integration,
- Simulations (neutrons, ViNYL),
- Virtual lab and
- Wiki.

Third party materials …

Third party catalogue …

Third party events …

Training and Learning Platform PaN-training.eu — An Overview

Powerful search

Log in to add events or materials

Our E-learning platform

Log in to access courses

Latest content from both platforms
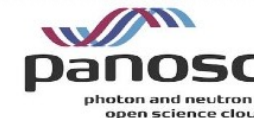
Materials, Metadata and the Possibility to Search for Topics & Methods

New in PaN-training:
zenodo background uploader

Integration of PANOSC's E-learning Courses in the PaN Training Catalogue

- Under **materials**, the metadata of all courses available on PANOSC's E-learning platform is **openly accessible** without registration.

- On our E-learning platform the content is only available after logging in (UmbrellaID).

E-learning courses are listed under materials

The E-learning platform requires authentication

The metadata of the courses is accessible without log in

The platform provides an integration of **JupyterLab**

A Place for PaN-related Events

Automated harvesting of events from different content providers

Rich metadata for on- and offline events with additional metadata and maps

Different Materials with Dependencies: Training Workflows
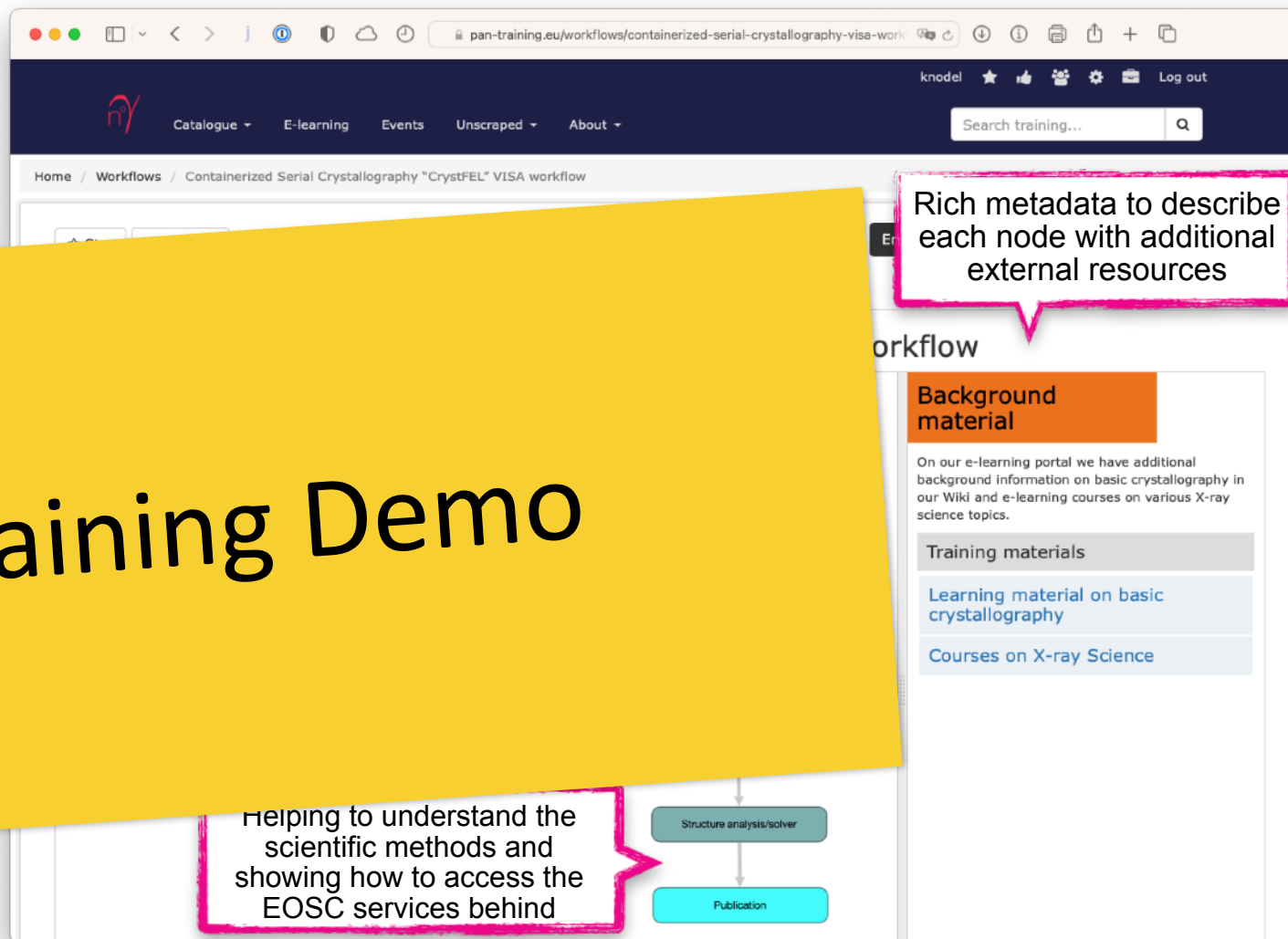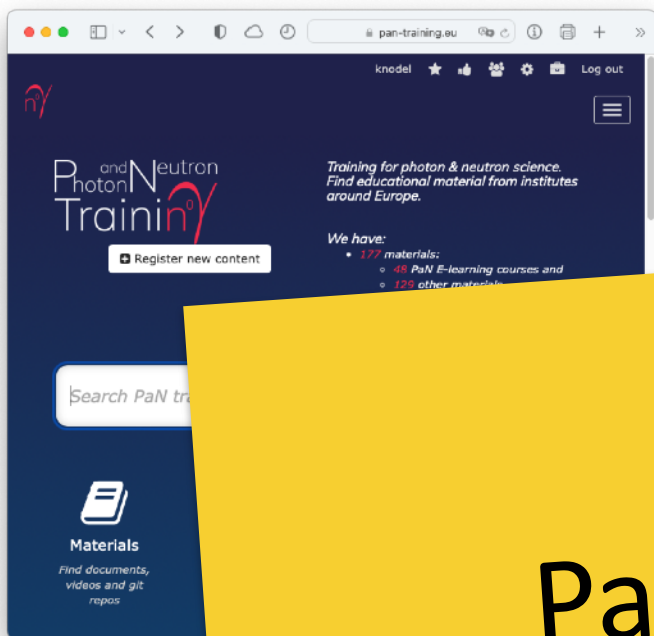
Rich metadata to describe each node with additional external resources

PaN-Training Demo

- With **training** dependencies and **interactiv**

- The workflow easy to create. native and

Empowering PaN scientists to use **EOSC** services!

Helping to understand the scientific methods and showing how to access the EOSC services behind

Training and Learning Platform: The Community
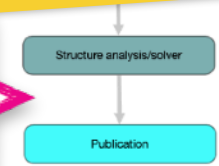
- Our portal depends on content from our community.

- With the **content provider** dashboard, we can browse the content from our community members:

  - **Facilities** and **Research Institutes (RIs)**,
  - **Projects**, **consortiums** or **initiatives**,
  - **Service providers** for the scientists.
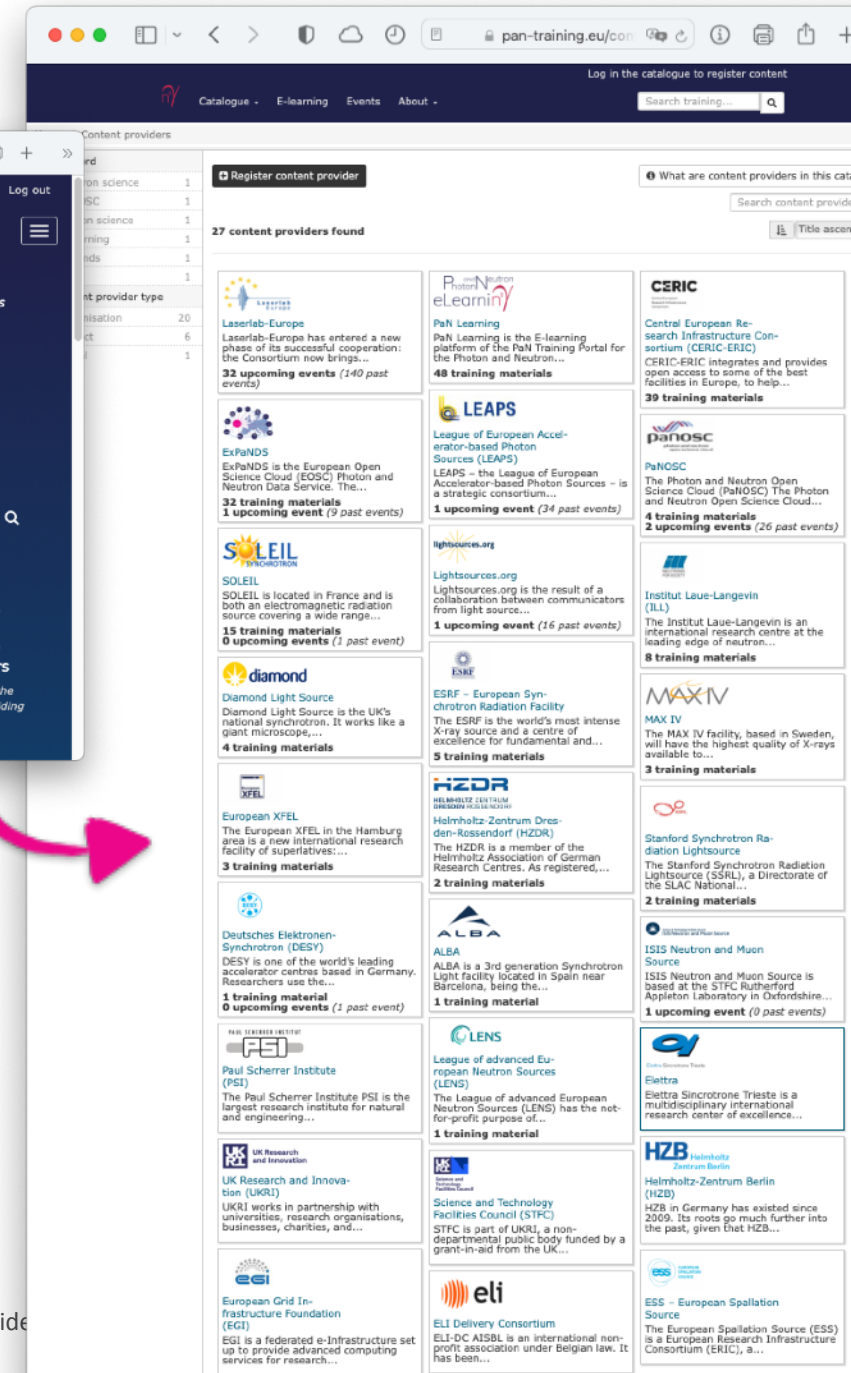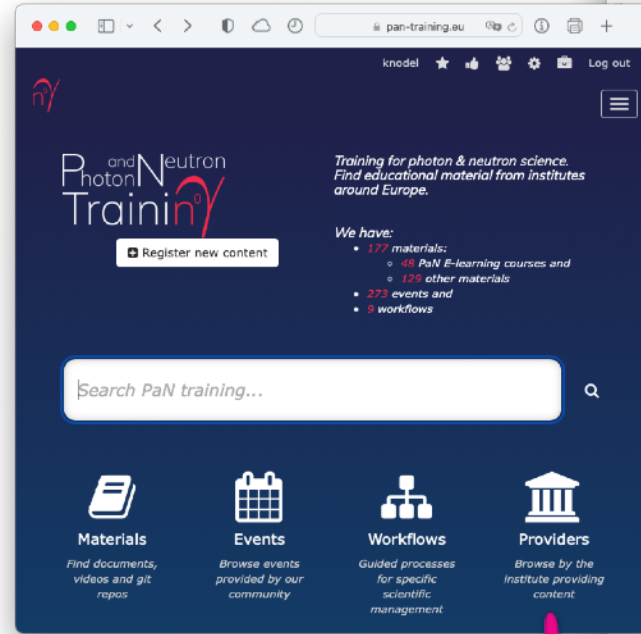
Two Projects, Two Systems, One Uniform Training Portal

- Registration as EOSC resources:
  - **pan-training.eu** ➜ HZDR
  - **e-learning.pan-training.eu** ➜ ESS
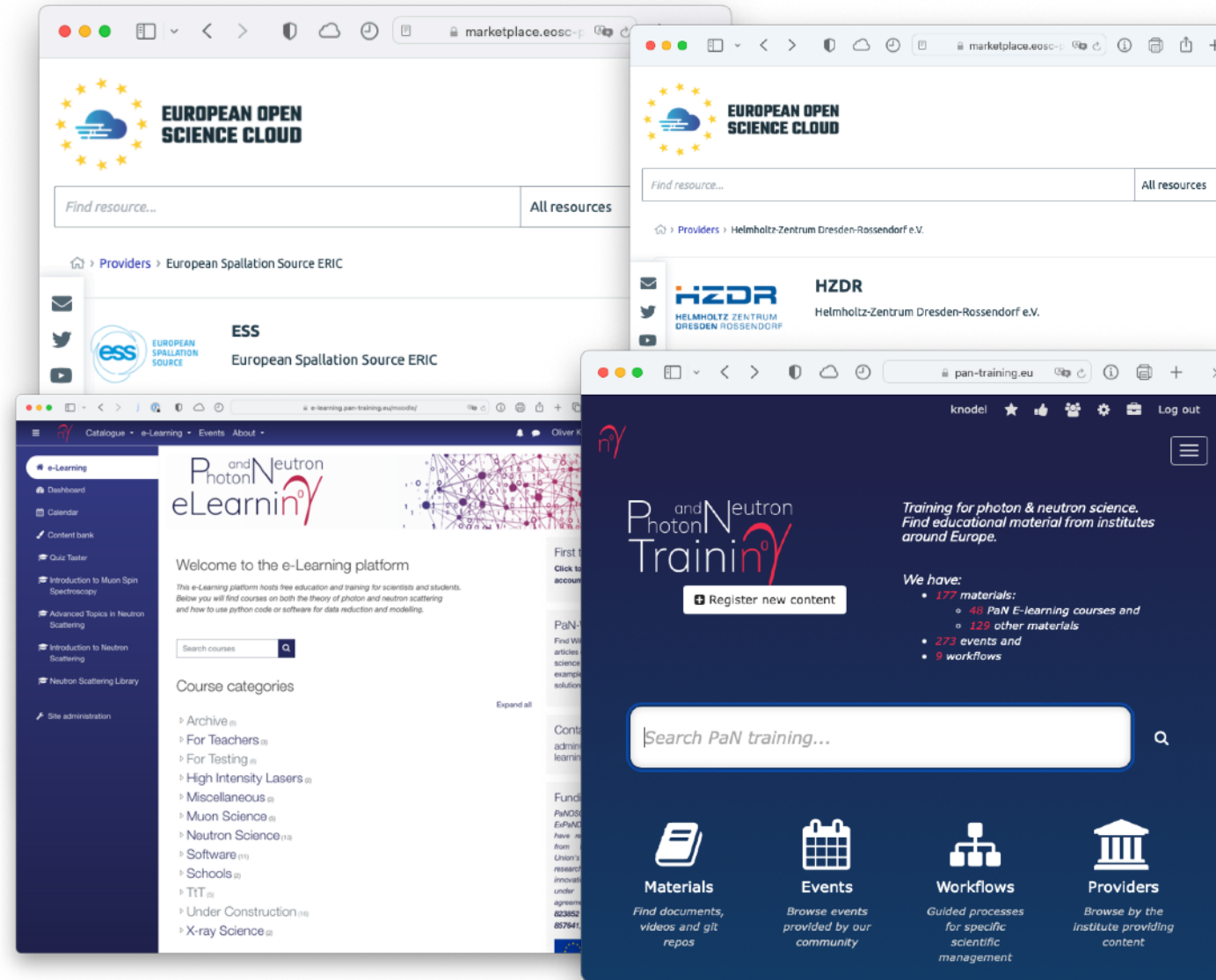- The transition from one system to another is **seamless**, regardless of the starting point.

Further Information

- The PaN training platform **pan-training.eu**
- PaN e-learning **e-learning.pan-training.eu**
- PaN e-learning Help **docs.pan-training.eu**
- ExPaNDS **expands.eu**, **@ExPaNDS_eu**
- PaNOSC **panosc.eu**, **@PaNOSC_eu**

For enquiries, information, or assistance;
contact our support desk at *pan-training@hzdr.de*

github.com/pan-training/training-catalogue

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Publications:

Knodel, Oliver, & Konrad, Uwe. (2021). Demonstrator for using e-learning platforms for PaN (1.0). Zenodo. DOI 10.5281/zenodo.5171766

Knodel, Oliver, Konrad, Uwe, Valcarcel-Orti, Ana, & Padovani, Antoine. (2022). The Training Catalogue for Photon and Neutron Data Services (2.1). Zenodo. DOI 10.5281/zenodo.6786282

Knodel, Oliver, & Padovani, Antoine. (2022). D5.5 Dedicated websites and e-platforms with the teaching material (1.0). Zenodo. DOI 10.5281/zenodo.7023247

Knodel, Oliver, Padovani, Antoine, & Schwabe, Julia. (2022). Training-catalogue for the Photon and Neutron Data Services (1.0.0). Zenodo. DOI 10.5281/zenodo.7015079