WP5: Training
Brainstorming on the platform development

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PaN Training Portal Architecture
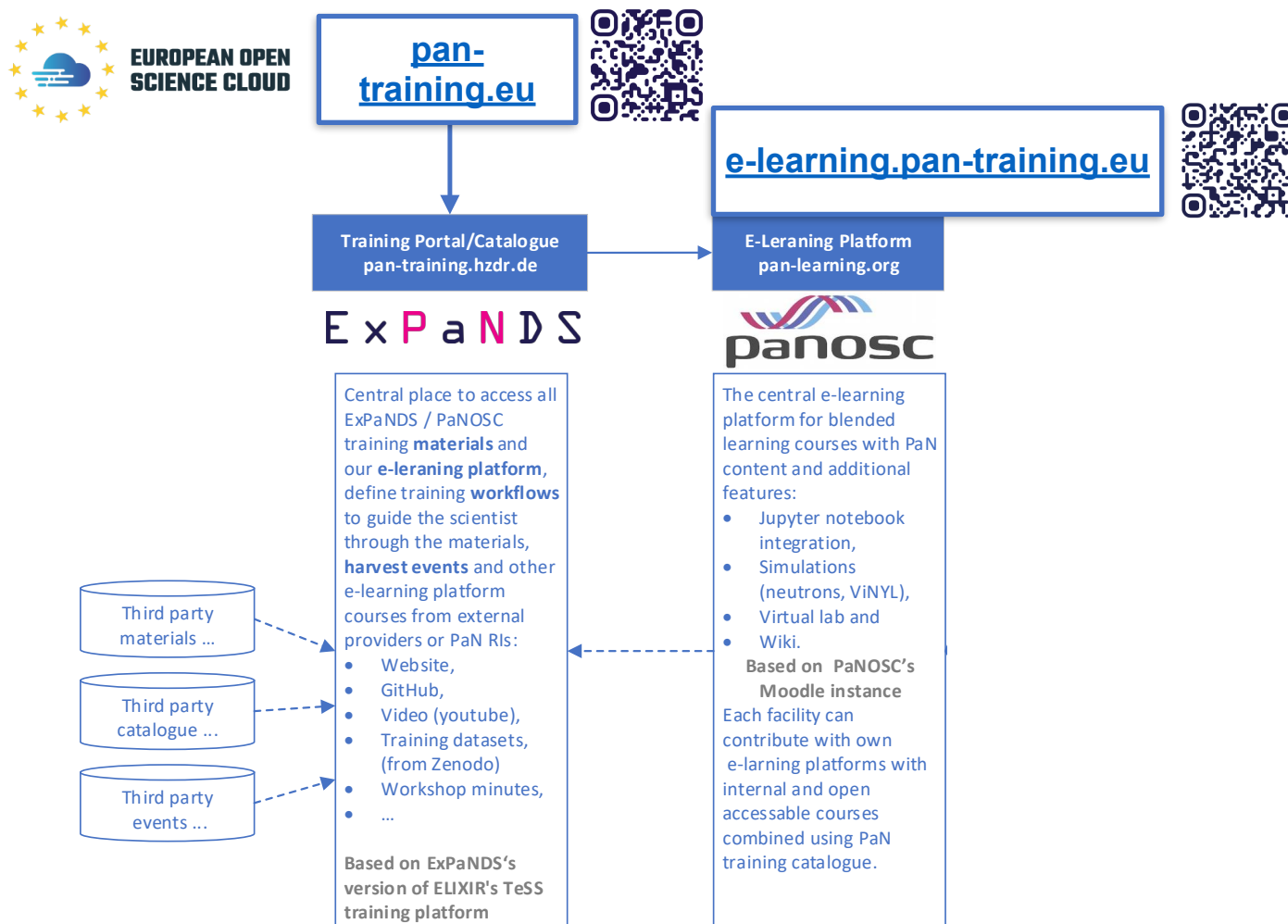
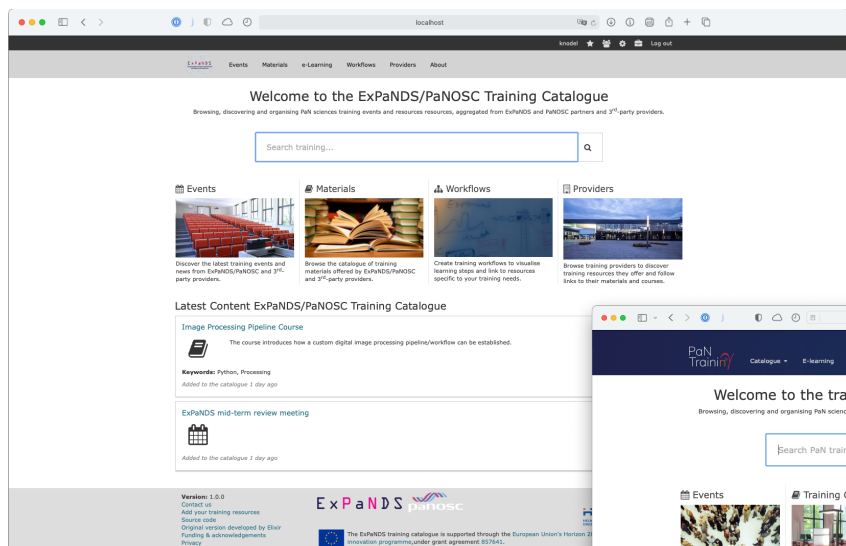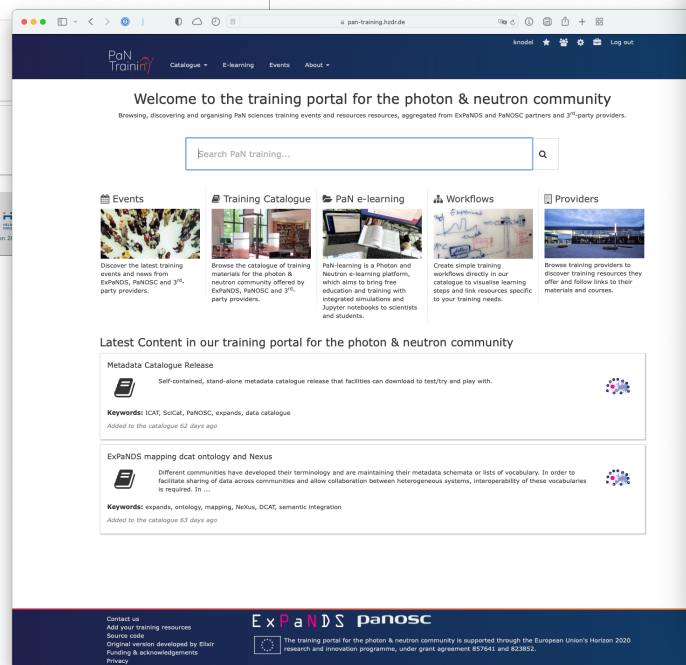- Overall PaN Training landing page with our three different services:
  - Events Calendar as part of our Catalogue.
  - Training Catalogue based on TeSS developed by ELIXIR and adapted / extended by **ExPaNDS**: https://pan-training.eu
  - E-learning plattform based on Moodle provided by **PaNOSC**: https://e-learning.pan-training.eu/

pan-training.eu

e-learning.pan-training.eu

Training Portal/Catalogue
pan-training.hzdr.de

E-Leraning Platform
pan-learning.org

ExPaNDS

panosc

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,
- …

Based on ExPaNDS's version of ELIXIR's TeSS training platform

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.
  Based on PaNOSC's Moodle instance
Each facility can contribute with own e-larning platforms with internal and open accessable courses combined using PaN training catalogue.

Third party materials …

Third party catalogue …

Third party events …

PaN Portal (or Training Catalogue)

2021
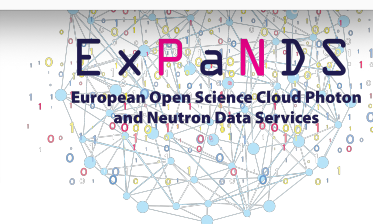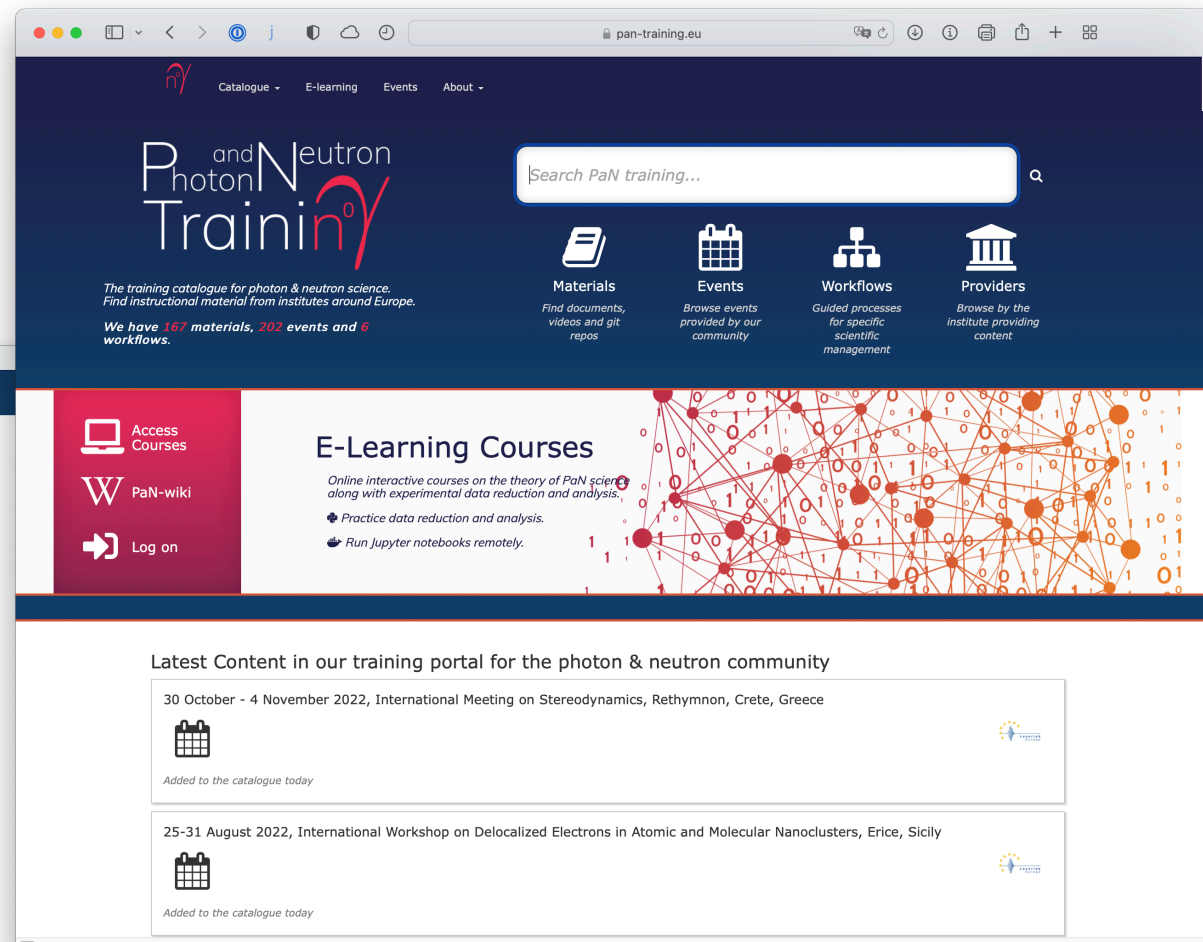
2020

Metadata

- We presented our metadata schema in **D5.4**: "Demonstrator for using e-learning platforms for PaN"

- In our training catalogue, we use the RDA metadata schema as a basis and add further elements from the IEEE Standard (IEEE 2002) for Learning Object Models (LOM)
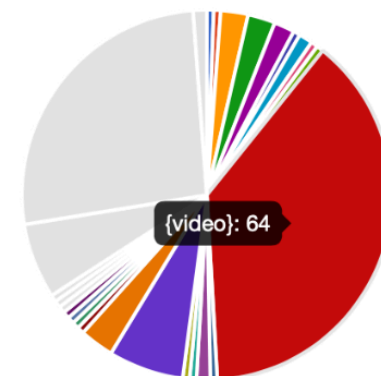
mandatory →

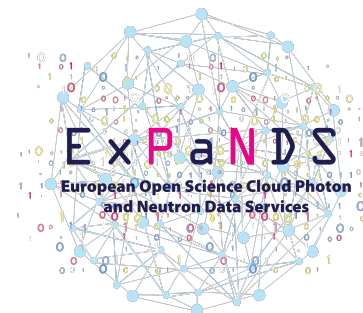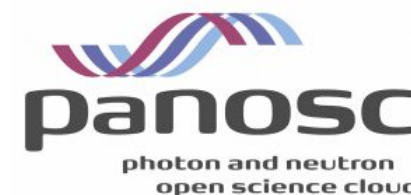| "Generic" Term	Description	PaN Catalogue Property
title	The name of the resource.	title*
url	URL that resolves to the learning resource or to a "landing page" for the resource that contains important contextual information including the direct resolvable link to the resource.	url*
abstract	A brief synopsis about or description of the learning resource.	short_description*
author(s)	List of full name of the author(s)	authors
author_org	Name of organisation authoring the resource.	author_org (intended)
context	Principal environment within which the learning & use of the resource is intended to take place, e.g., university, RI	target_audience
contributor(s)	List of full name of secondary person(s) contributing to the resource.	contributors
Org	Name of organisation that has been asserted as the contact for the resource in case of questions or follow-up by resource user.	content_provider
creator	The login name of the person creating the catalogue record.	creator (intended)
date_created	The date on which the resource was created.	created_at
difficulty	How hard it is to work with or through the resource for the typical intended target audience (very easy, easy, medium, difficult, very difficult, knowledge-dependent)	difficulty_level
featured_event	Course instance or event where this training resource was or will be featured. (inverse of workFeatured)	events
id	System identifier for the MD record.	id
keywords	Keywords or tags used to describe the resource.	keywords
language_primary	Language of the material	language ~~(intended)~~
license	A license document that applies to this content, typically indicated by URL.	licence
	A more detailed description of the learning resource.	long_description
lr_type	The predominant type or kind that characterises the learning resource.	resource_type
resource_id_label	A globally unique label that identifies the learning object.	doi
subject	Subject domain toward which the resource is targeted.	scientific_topic

*mandatory

Fixed Vocabularies

- We have fixed vocabularies for:

  - Language,

  - Scientific topics (PaNET),

  - License,

  - Difficulty level and

 - (Content provider)

{video}: 64

pie chart resource_type

- {git,github,"Git Project"}
- {slides,video}
- {git,"jupyter notebook"}
- {}
- {git,tool}
- {github}
- {slides}
- {"community site"}
- {software,git}
- {video}
- {video,slides,"scientific article"}
- {Poster}
- {game}
- {"Moodle course",e-learning,slides}
- {Document}
- {tool}
- {docker,docker-compose,software,git}
- {pdf,git}
- {Git,tool}
- {git,tutorial,slides,e-learning}
- {tutorial}
- {Git}
- {"project deliverable"}
- {video,slides}
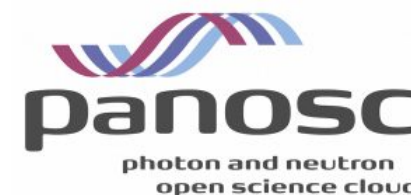- {"Moodle course",e-learning}
- {wiki}

Curation

- Our catalogue provides curation of materials (also for scraped content).
- The curation role allows full access to modify and also delete or exclude content).

Automated Scrapers

- At the moment we scrape/harvest content from:
  - e-learning.pan-training.eu
  - LEAPS
  - Laserlab Europe
  - PaNOSC website
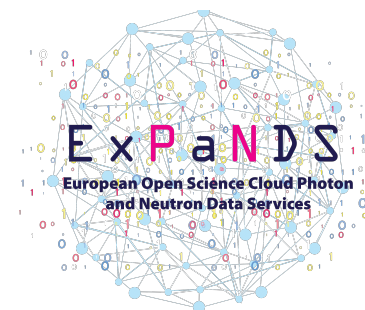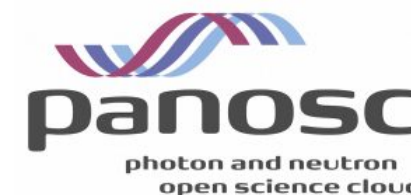- In development:
  - LENS
  - ExPaNDS website
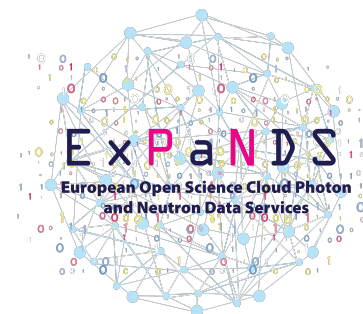
Github Issues

- github.com/pan-training/training-catalogue
- Main questions:
  - Upload feature?
  - Video streaming?
  - Metadata extension?
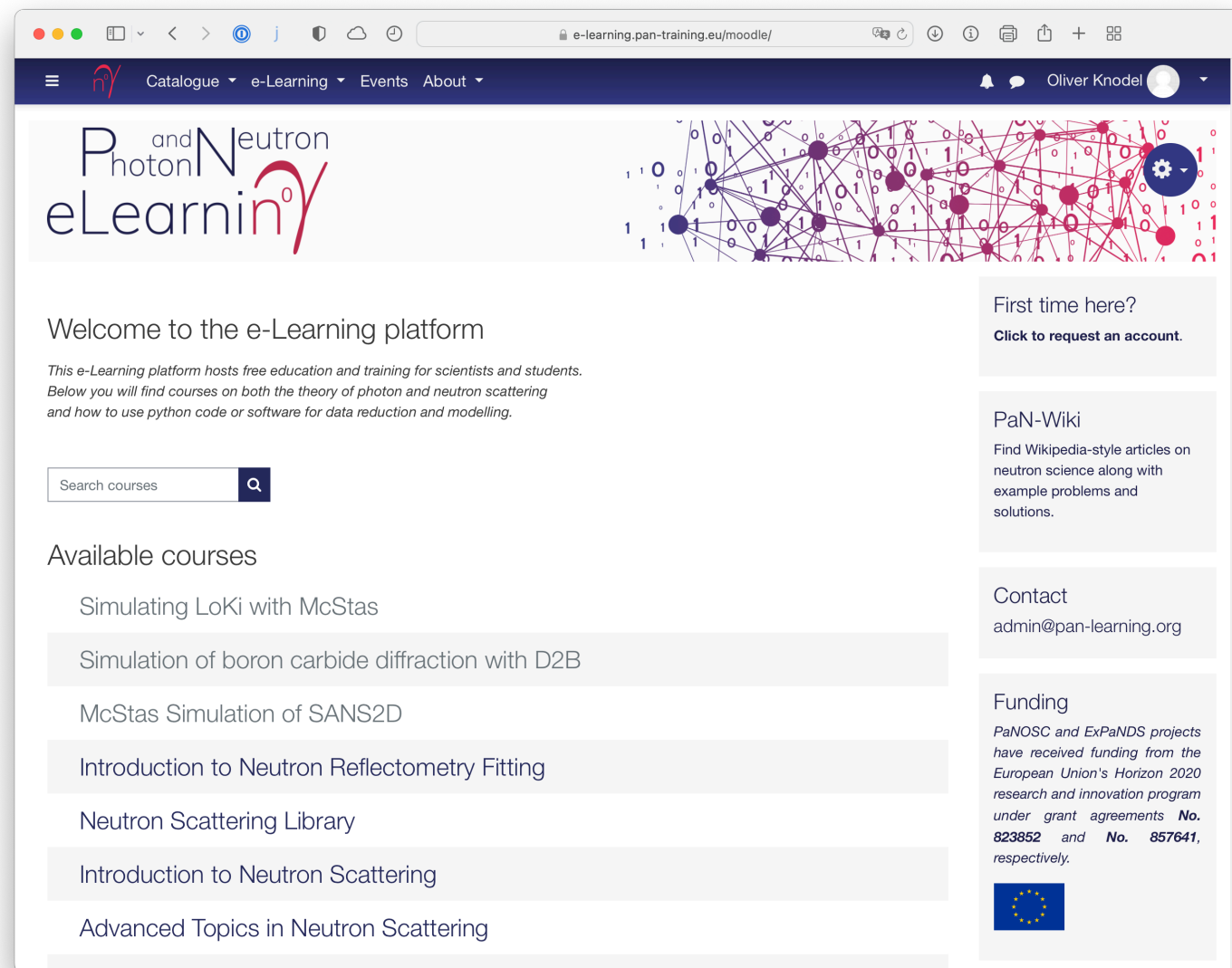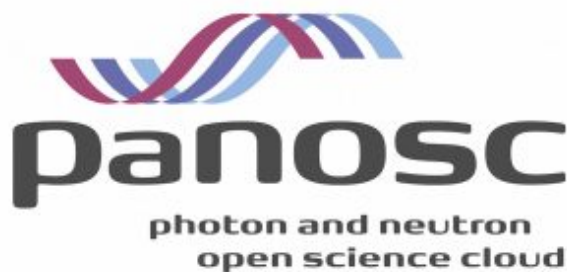 - Extended PaNET support?

⊙ **11 Open**   ✓ 29 Closed

| ☐ | Author ▾ | Label ▾ | Projects ▾ | Milestones ▾ | Assignee ▾ | Sort ▾ |

☐ ⊙ **404 url checker** `bug`
#70 opened 8 minutes ago by antoinepado

☐ ⊙ **Seamless upload to Zenodo** `enhancement`
#69 opened 8 minutes ago by antoinepado

☐ ⊙ **Categorise events based on experimental technique**
#65 opened on May 5 by paulmillar

☐ ⊙ **Support PaNET-based expansion of search terms** `enhancement`
#60 opened on Feb 22 by paulmillar

☐ ⊙ **The layout on mobile devices is broken** `bug`
#54 opened on Feb 14 by knodel

☐ ⊙ **Uploading content (videos, ppts, pdfs ...)** `discussion` `enhancement`   💬 1
#43 opened on Dec 16, 2021 by knodel

☐ ⊙ **Update material metadata structure** `discussion` `enhancement`   💬 2
#24 opened on Sep 1, 2021 by knodel

☐ ⊙ **Resource type as required field with vocabulary** `discussion` `enhancement`
#21 opened on Aug 24, 2021 by knodel

☐ ⊙ **PID for the material** `discussion`
#17 opened on Jun 30, 2021 by knodel

☐ ⊙ **Fix vulnerabilities in dependencies** `infrastructure`
#15 opened on Jun 23, 2021 by knodel

☐ ⊙ **Change Nodes to RIs** `discussion`   💬 2
#6 opened on Mar 29, 2021 by knodel

panosc
photon and neutron
open science cloud

ExPaNDS
European Open Science Cloud Photon
and Neutron Data Services

PaN E-Learning

- PaNOSC WP8

- The courses are integrated in our PaN training catalogue

- Jupyter notebook integration

- …