

### **Basic information**

### Project acronym

Project full title

Grant agreement no.

## D 2.5

## Virtual training uploaded and available

### NEPHEWS

NEutrons and PHotons Elevating Worldwide Science

101131414

### **Deliverable information**

Due Date	31.12.2024
Completion Date	19.03.2025
Lead partner	SOLARIS
Nature	Recordings
Dissemination level	Public
Authors	Piotr Piwowarczyk piotr.piwowarczyk@uj.edu.pl
	Krzysztof Zieliński
	Magdalena Żychowska



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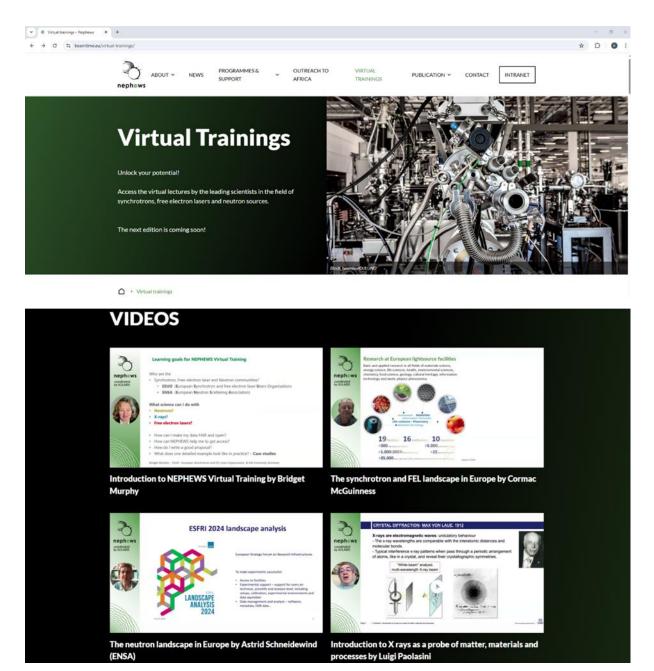
### Introduction

This document confirms the completion of professional virtual training recordings conducted in February and March based on the previously developed training agenda. Renowned scientists and leading specialists in neutron and photon sciences were invited to participate in the recordings. Cooperation with the recording company has resulted in high-quality recordings that are also accessible to people with disabilities through inclusive transcription. The prepared material serves as a highly valuable support tool for scientists looking to begin their experiments at large-scale research infrastructures, such as neutron or photon sources.

### List of recorded lectures:

- 1. Introduction to NEPHEWS Virtual Training by Bridget Murphy ESUO
- 2. The synchrotron and FEL landscape in Europe by Cormac McGuinness ESUO
- 3. The neutron landscape in Europe by Astrid Schneidewind ENSA
- 4. Introduction to neutrons as a probe of matter, materials and processes by Mark Johnson ILL
- 5. Neutron diffraction introduction and examples by Navid Qureshi ILL
- 6. Small angle neutron scattering and neutron reflectometry by Andrew Jackson ESS
- 7. Neutron imaging introduction and examples by Markus Strobl PSI
- 8. Introduction to X rays as a probe of matter, materials and processes by Luigi Paolasini ESRF
- 9. *Nuclear and particle physics introduction and examples* by Bastian Märkisch University of Munich
- 10. Synchrotron Photoemission spectroscopy from core levels to environments by Norbert Koch Humboldt University
- 11. Synchrotron X ray Diffraction an emphasis on powder diffraction by Andy Fitch ESRF
- 12. Synchrotron X ray imaging and computed tomography by Paul Tafforeau ESRF
- 13. Accessing beamtime at large scale facilities for new and non-expert users through NEPHEWS by Antje Vollmer - Helmholtz-Zentrum Berlin (HZB) & Philip King - ISIS Neutron & Muon Source (ISIS)
- 14. Infrared FELs, their applications and science examples by Stefan Winnerl HZDR
- 15. Experiments at large scale facilities, practice and workflows in X-ray science by Bridget Murphy ESUO
- 16. A case study in neutron science of user access at large scale facilities from non-facility countries by Paavo Penttilä Aalto University
- 17. Using XRF mapping and micro-XAFS to explore the spatial distribution by Maria Katsikini Aristotle University of Thessaloniki
- 18. Accessing beamtime at large scale facilities through NEPHEWS by Giovanna Cicognani (ILL) & Rainer Lechner (Montanuniversität Leoben)
- 19. Synchrotron X-ray Absorption Spectroscopy–insights into experimental techniques by Alexey Maximenko SOLARIS
- 20. Neutrons as probes for soft matter by Maria Paula Marques The University of Coimbra
- 21. Introduction to Femtosecond X-ray Experiments at X-ray Free Electron Lasers by Christian Bressler -EuXFEL

#### Screenshots from the project webpage and the project's YouTube channel



(<u>https://beamtime.eu/</u>)

