

# “XFEL Applications in Material Sciences and Nanotechnology”

December 5-6, 2024

*Institute of Physics, Polish Academy of Sciences, Al. Lotników 32/46, Warsaw*

The **European Free Electron X-ray Laser (EuXFEL)** is among the world's largest ongoing scientific endeavors. Its cutting-edge research capabilities draw top scientists from across the world, enabling the pursuit of ambitious scientific challenges. EuXFEL's experiments significantly advances our understanding across various fields, including medicine, pharmacology, chemistry, materials science, nanotechnology, energy, and electronics, fostering the development of new technologies that impact our everyday lives.

The workshop “**XFEL applications in Material Sciences and Nanotechnology**” is being organized as a part of a project by the Ministry of Science and Higher Education, supporting the development of the Polish XFEL scientific community to fully leverage the new research opportunities offered by the EuXFEL. The event will take place at the **Institute of Physics, Polish Academy of Sciences** in Warsaw, on **December 5-6, 2024**.

During the workshop, world-class experts will present examples of XFEL research in the field of:

- **materials research at high pressures and temperatures,**
- **nanotechnology** and
- **magnetism.**

The workshop will also provide an opportunity for Polish scientists to present their current and/or planned XFEL research.

In addition to insightful scientific presentations, attendees will be introduced to the opportunities available through the Ministry Program, which provides funding for:

- participation in XFEL related conferences, workshops and schools,
- internships at EuXFEL experimental stations
- performing pilot and complementary experiments.

Moreover, the event will feature a presentation on the Network of Centres of Excellence for XFEL research in Poland (CD XFEL ), where this program is being implemented.

We are confident that the workshop will serve as an important step for the participants in preparing high-quality scientific projects and performing successful experiments at the EuXFEL.



## **Organizers:**

Ryszard Sobierajski, Joanna Libera – *Institute of Physics, Polish Academy of Sciences*

Wojciech Gawęda, Adam Glinka, Jacek Kubicki, Maciej Kozak – *Adam Mickiewicz University, Poznań*

Katarzyna Jarzemska – *University of Warsaw*

Dagmara Milewska – *National Center for Nuclear Research*

**Registration (free of charge):**

<https://events.ncbj.gov.pl/event/375/>

**Contact:**

[cd-xfel@ifpan.edu.pl](mailto:cd-xfel@ifpan.edu.pl)

