

Polish research at the European XFEL

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The European X-ray Free Electron Laser (EuXFEL) is an international laboratory where intense ultrashort pulses X-rays are generated and applied in scientific research. It contributes to the significant expansion of our knowledge in many scientific disciplines (m.in. medicine, pharmacology, chemistry, materials science, nanotechnology, energy and electronics) and the emergence of new technologies affecting our daily lives [1]. During the presentation, a Project financed by the Ministry of Science and Higher Education to support the Polish scientific community in the use of new research opportunities offered by EuXFEL will be presented [2]. The project includes the following activities:

1. training in basic knowledge of XFEL applications and research techniques used, including several months of internships for young researchers at institutions participating in XFEL research and a lecture on XFEL for undergraduate and doctoral students;
2. funding the participation of Polish scientists in conferences and workshops on XFEL research;
3. assistance in establishing or expanding scientific contacts with EuXFEL employees and/or research groups carrying out similar research in Poland and abroad;
4. assistance in the preparation of research projects in competitions for measurement time on XFEL sources, also by performing pilot and complementary studies.

The lecture will end with a presentation by the Network of Centres of Excellence in the field of research using XFEL (CD XFEL), in which the above program is implemented.

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References

1. https://biuletyn.synchrotron.org.pl/wp-content/uploads/2023/12/Biuletyn_all_12_2023.pdf
2. www.ifpan.edu.pl/cd-xfel