

XFEL 2018

SCIENCE AND INSTRUMENTATION

10-12 October, 2018. Gdansk, Poland

The International School on XFEL: Science and Instrumentation is organized in close collaboration between Immanuel Kant Baltic Federal University (Kaliningrad, Russia) and the Gdańsk University of Technology (Gdańsk, Poland).

European XFEL is a novel scientific tool with parameters exceeding those in already existed facilities. Being a next-generation X-ray source, XFEL is intended to face the actual challenges both in fundamental science and applications. Two-days school (seminar) in Gdansk is organized to illuminate the XFEL physics and provided methods, elucidate their potential for research, and pave the way for young scientists and introduce them to XFEL community.

The school will cover the basics of XFEL physics and instrumentation, specific topics, such as ptychography and X-ray optics for FEL's, and give insight into possibilities for crystallography, ultrafast phenomena, magnetism, and biology. The world level scientists from the USA, Japan, Germany and etc. will share their experience and acquired knowledge.

Topics:

- Fundamentals of XFEL radiation. FEL accelerator physics.
- Beamlines for photon transport and handling. XFEL instrumentation.
- Advanced methods and techniques provided on XFEL.
- Advantages of using coherent X-ray's. Ptychography and imaging.
- X-ray optics for XFEL.
- Study of magnetism by XFEL.

Lecturers:

- Prof. Serguei Molodtsov (EU-XFEL, ITMO University, TU Freiberg)
- Prof. Kazuto Yamauchi (Osaka University)
- Dr. Wojciech Gawelda (EU-XFEL)
- Dr. Makina Yabashi (SPring-8)
- Dr. Oleksandr Yefanov (CFEL)

Co-Chairs:

- Prof. Anatoly Snigirev (IKBFU)

- Prof. Wojciech Sadowski (GUT)
- Prof. Serguei Molodtsov (EU-XFEL, ITMO University, TU Freiberg)

Organizing Committee:

- Dr. Ksenia Chichay (IKBFU)
- Dr. Petr Ershov (IKBFU)
- Ms. Nataly Klimova (IKBFU)
- Mr. Sergey Shevyrtalov (IKBFU)
- Mr. Nikolai Novoseltsev (IKBFU)
- Prof. Anna Perelomova (GUT)
- Dr. Pawel Wojda (GUT)

Contact person: Dr. Ksenia Chichay
E-Mail: xoptics_lab@gmail.com