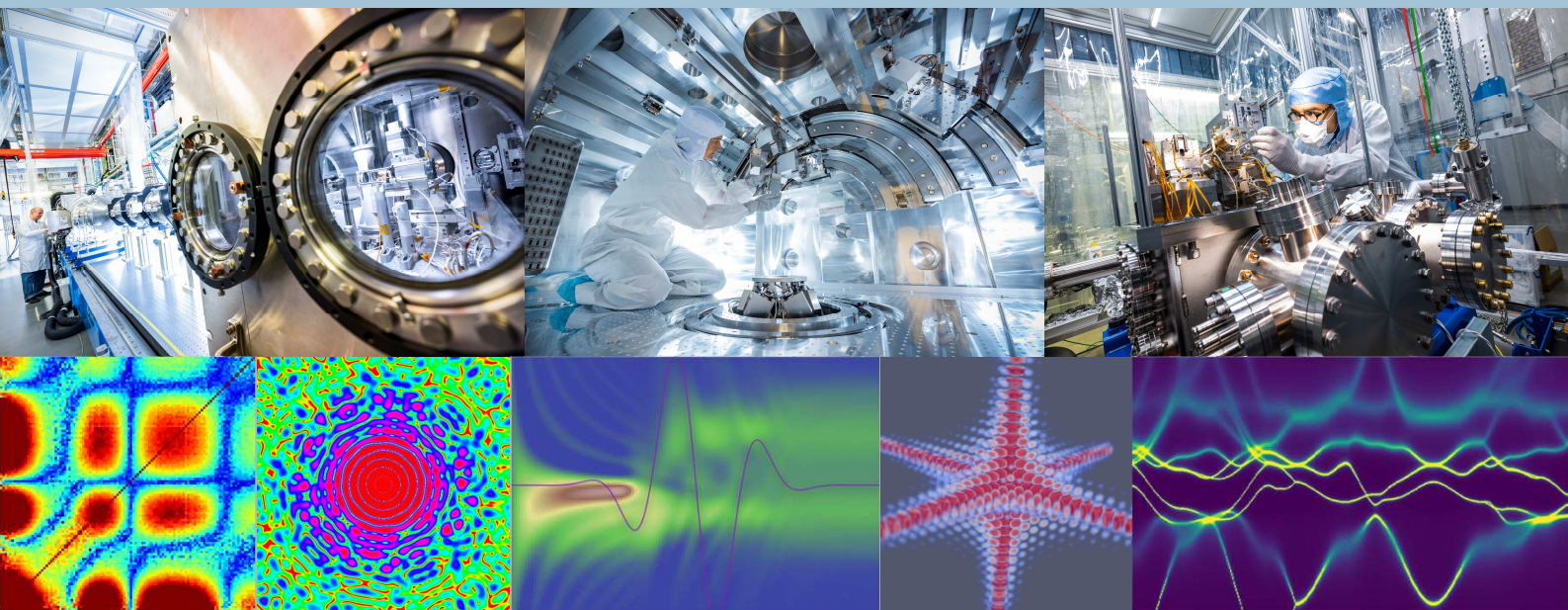


Theory meets XFELs

2 – 4 November 2022

European XFEL, Schenefeld, and CFEL/DESY, Hamburg, Germany



Scope

X-ray Free-Electron Lasers (XFELs) offer state-of-the-art capabilities for experimental research with X-rays. Modern theory and simulations play an essential role here as they are not only applied to explain the experimental observations but they are also instrumental to generate new ideas for designing new experiments. The aim of the Workshop “Theory meets XFELs” is to foster collaborations between theorists and experimentalists interested in research with XFELs. The Workshop is dedicated to recent theoretical developments in the fields of

- Ultrafast X-ray Diffraction and Imaging
- Ultrafast X-ray Spectroscopy
- High Energy Density Physics
- Ultrafast ARPES
- Ultrafast Magnetism

and is complemented with excellent examples of experimental applications of XFELs in these fields.

Workshop Organizers

Nils Brouwer (European XFEL)
 Ruslan Kurta (European XFEL)
 Alexander Lichtenstein (European XFEL and Uni Hamburg)
 Serguei Molodtsov (European XFEL)
 Beata Ziaja-Motyka (CFEL/DESY and IFJ PAN)

Confirmed Speakers

Andrew Baczewski (Sandia National Laboratories), **Silke Biermann** (École Polytechnique), **Lin Chen** (Northwestern University), **Claudia Draxl** (Humbolt University Berlin), **Martin Eckstein** (University of Erlangen–Nuremberg), **Andrea Eschenlohr** (University of Duisburg–Essen), **Jim Freericks** (Georgetown University), **Taisia Gorkhover** (University of Hamburg), **Marion Harmand** (Sorbonne University), **Zoltan Jurek** (CFEL, DESY), **Bert Koopmans** (Eindhoven University of Technology), **Shaul Mukamel** (University of California, Irvine), **Peter Oppeneer** (Uppsala University), **Thomas Penfold** (Newcastle University), **Ronald Redmer** (University of Rostock), **Frank Rosmej** (Sorbonne University), **Kai Roßnagel** (University of Kiel), **Sangeeta Sharma** (Max-Born-Institute), **Joachim von Zanthier** (University of Erlangen–Nuremberg)

Registration

- <http://indico.desy.de/e/theory-meets-xfels>
- Open 15 August - 15 October 2022



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