

# New trends in theory for experiments at advanced light sources



29 November – 1 December 2017

European XFEL, Schenefeld, and CFEL, Hamburg, Germany

The European XFEL X-ray light source in the Hamburg area of Germany brings up new prospects and challenges for **electronic structure theory**. This workshop covers recent developments in theoretical methods used for explaining and designing experiments at XFELs and synchrotron-radiation advanced light sources.

## Topics:

- Photoemission spectroscopy
- Core level spectroscopy
- Advanced theories
- Spectroscopy of strongly correlated systems out of equilibrium
- Dynamics of topological materials
- Atomic, molecular, and optical physics
- Ultrafast structural dynamics



## Confirmed speakers

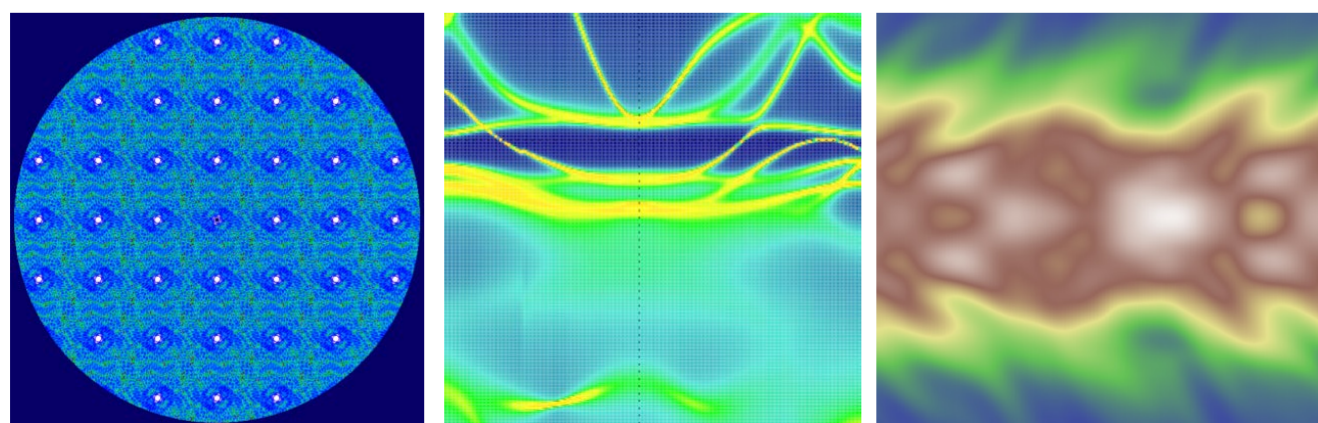
**M. Bonitz** (CAU Kiel, DE), **E. Chulkov** (Tomsk State Univ., RU), **H. Ebert** (LMU München, DE), **M. Eckstein** (Univ. Erlangen-Nürnberg, DE), **J. Freericks** (Georgetown Univ., US), **A. Grum-Grzhimailo** (Moscow State Univ., RU), **M. Haverkort** (Univ. Heidelberg, DE), **N. Kabachnik** (European XFEL, DE), **N. Medvedev** (Czech Academy of Sci., CZ), **S. Mukamel** (UC Irvine, US), **S. Ovchinnikov** (Inst. of Physics, RU), **A. Rubtsov** (Moscow State Univ., RU), **E. Saldin** (DESY, DE), **O. Smirnova** (MBI, DE), **A. Soldatov** (Southern Federal Univ., RU), **S.-K. Son** (DESY, DE), **N. Tsuji** (RIKEN, JP), **I. Vartanyants** (DESY, DE), **D. Yudin** (ITMO Univ., RU)

## Organizers

- **Massimo Altarelli** MPSD, Hamburg
- **Evgeny Gorelov** European XFEL
- **Ruslan Kurta** European XFEL
- **Alexander Lichtenstein (chair)** European XFEL and Universität Hamburg
- **Serguei Molodtsov** European XFEL
- **Robin Santra** DESY and Universität Hamburg

## Registration

- <https://indico.desy.de/event/theory-xfel>
- Open 15 September – 15 November 2017
- Free of charge for all participants
- Number of participants limited to 100 and will be filled on a first-come, first-served basis



## Contact

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