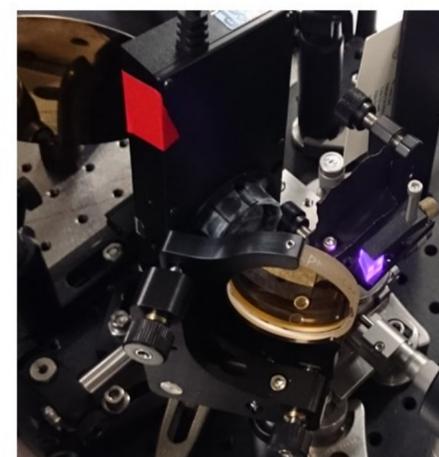
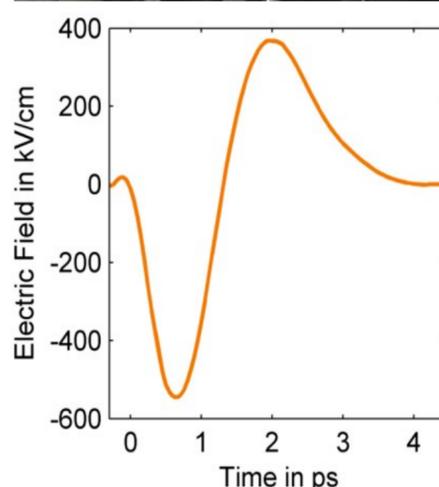
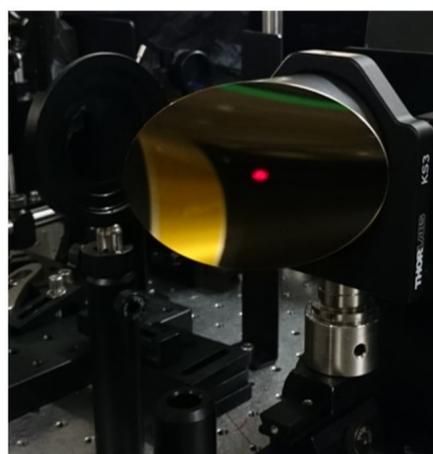


Terahertz science at European XFEL

01–02 June 2017 / European XFEL, Schenefeld, Germany

The **interaction of terahertz radiation with matter** excites novel states with unique properties. These non-equilibrium states will benefit from ultrafast characterization using the ultrashort and highly brilliant X-ray pulses available at FELs. With this in mind, we are pleased to announce a terahertz workshop, with the aim to find the most scientifically promising strategies to combine terahertz radiation with the unique X-ray pulses generated at European XFEL.

The 2 day workshop will be led by 18 presentations from invited international scientists. The first day will explore the **scientific motivation for THz - X-ray experiments**. The second day will focus on the **two main routes to THz generation in the frequency range from 0.1 to 20 THz** (3 mm to 15 μm): On the one hand, state of the art laser-based sources; and on the other, undulator sources based on a second, smaller accelerator. Specific aspects will be compatibility with the MHz repetition rate of the European XFEL and novel opportunities for coherent control in the multi-THz regime. We intend to discuss how individual research projects can benefit from a combination of these sources.



Registration deadline

- <https://indico.desy.de/conferenceDisplay.py?confId=16848>
- Registration opens 01 March–01 May 2017
- Places are limited to approximately 90 and will be filled on a first-come, first-served basis

Organizers

Robert Carley
 Andreas Scherz
 Peter Zalden
 European XFEL, Schenefeld, Germany

Programme Committee

Mikhail Krasilnikov (PITZ@DESY)
 Max Lederer (European XFEL)
 Andreas Scherz (European XFEL)
 Mikhail Yurkov (DESY)
 Peter Zalden (European XFEL)

Confirmed speakers

Andrea Cavalleri (MPSD)
 Stefano Bonetti (Stockholm)
 Dmitry Turchinovich (U Mainz)
 Aaron Lindenberg (SLAC)
 Max Lederer (European XFEL)
 Matthias Hoffmann (LCLS)
 Franz Kärtner (DESY CFEL)
 Michael Gensch (HZDR)
 Mikhail Krasilnikov (PITZ@DESY)
 Christoph Hauri (PSI)
 Andrej Savilov (IAP, RAS, N. Novgorod)
 Karsten Holldack (HZB)

- We encourage all participants to submit a poster to ensure that a broad range of THz - X-ray science can be discussed.
- A workshop dinner will take place on the evening of 1 June.