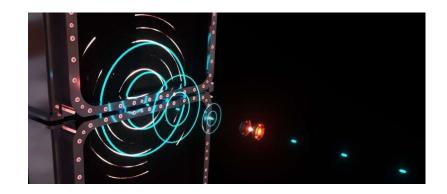
## Workshop on Hard X-ray Science (XHS): Opportunities for Diamond Anvil Cell Research at High X-ray Energies



## Wednesday 18 June 2025 - Thursday 19 June 2025 European XFEL

## Programme

Wednesday | June 18, 2025 08:30 - 09:00 | Registration, Coffee & Snacks 09:00 - 09:10 | Welcome - Sakura Pascarelli 09:10 - 09:40 | Overview & Introduction - Sakura Pascarelli, Ulf Zastrau 09:40 - 10:20 | DAC science at HED - Zuzana Konopkova 10:20 - 11:00 | Technical Overview - Cornelius Strohm

11:00 - 11:20 | Coffee Break & Group Picture

Session one: X-ray and Laser heating methods | Chair: Zuzana Konopkova

11:20 - 12:00 | X-ray and Laser heating methods - *Malcolm McMahon* 12:00 - 12:40 | Measurements of thermal conductivity, SOP - *Stewart McWilliams* 12:40 - 14:00 | Lunch Break

14:00 - 14:40 | Phase transitions in metals using X-ray heating - Agnes Dewaele

14:40 - 15:20 | Melting, dynamics of re-crystalisation from melt in binary/ternary systems - *Guillaume Morard* 15:20 - 15:40 | Kinetics of synthesis of new compounds, chemical reactions - *Alexander Goncharov* 

15:40 - 16:00 | Coffee Break

Session Two - New experiments and opportunities | Chair: Rachel Husband

16:00 - 16:30 | Ultrafast light switched phenomena - Yu Lin

16:30 - 17:00 | Transient grating spectroscopy (TGS) coupled with static high pressure - Ian Ocampo

17:00 - 17:45 | Visit to the Exhibition Center 18:00 - 21:00 | Dinner in BeamStop Thursday | June 19, 2025

Session Three - Specialties, other DAC methods | Chair: Cornelius Strohm

09:00 - 09:40 | Overview on past experiments on measuring electronic phase transitions with X-ray Emission Spectroscopy in IC1 - *Christian Sternemann* 09:40 - 10:20 | View on the PCI with DACs, concept and state - *Rachel Husband* 10:20 - 11:00 | Overview on general dDAC experiments at EuXFEL - *Earl O'Bannon* 

11:00 - 11:20 | Coffee Break

11:20 - 12:00 | Low-Z experiments - melting on diamond update - Clemens Prescher

## 12:00 - 13:00 | Discussion & Closeout

13:00 | Lunch