

## “Theory meets XFELs 2025”

(preliminary program ver. 26.09.2025)

**26 November 2025: European XFEL, Schenefeld, Germany**  
**27-28 November 2025: CFEL, DESY, Hamburg, Germany**

### **WEDNESDAY, 26 November 2025**

**Auditorium, Lighthouse visitor center, European XFEL, Schenefeld**

|                      |                                                                                             |
|----------------------|---------------------------------------------------------------------------------------------|
| 09:00 – 09:45        | <b>Registration</b> (Lighthouse Foyer, in front of the Auditorium)                          |
| 09:45 – 10:00        | <b>Welcome</b>                                                                              |
| <i>Session 1:</i>    | <i>Ultrafast electron dynamics – Towards attosecond solid state physics (10:00 – 13:00)</i> |
| 10:00 – 10:30        | <b>Martin Eckstein</b> (University of Hamburg)                                              |
| 10:30 – 11:00        | <b>Maurits Haverkort</b> (Heidelberg University)                                            |
| 11:00 – 11:30        | Coffee Break                                                                                |
| 11:30 – 12:00        | <b>Tim Wehling</b> (University of Hamburg)                                                  |
| 12:00 – 12:30        | <b>Ichiro Inoue</b> (University of Tokyo and RIKEN)                                         |
| 12:30 – 13:00        | Discussion                                                                                  |
| <b>13:00 – 14:00</b> | <b>Lunch Break</b>                                                                          |
| <b>14:00 – 15:00</b> | <b>Guided Tour through the European XFEL Experimental Hall</b>                              |

*Session 2: Ultrafast structural dynamics – Phase transitions and lattice dynamics (15:00 – 18:00)*

|               |                                                                     |
|---------------|---------------------------------------------------------------------|
| 15:00 – 15:30 | <b>Claudia Draxl</b> (Humboldt University of Berlin)                |
| 15:30 – 16:00 | <b>Mariana Rossi</b> (MPI for the Structure and Dynamics of Matter) |
| 16:00 – 16:30 | Coffee Break                                                        |
| 16:30 – 17:00 | <b>Martin Garcia</b> (University of Kassel)                         |
| 17:00 – 17:30 | <b>Kai Rossnagel</b> (Kiel University)                              |
| 17:30 – 18:00 | Discussion                                                          |
| 18:00 – 21:00 | <b>Reception @ European XFEL</b>                                    |

**THURSDAY, 27 November 2025**

**CFEL Seminar rooms I-III, CFEL (Building 99), DESY, Hamburg**

*Session 3: Ultrafast spin dynamics – Magnetism, transport and topological effects (09:00 – 12:00)*

|               |                                                       |
|---------------|-------------------------------------------------------|
| 09:00 – 09:30 | <b>Konrad Kaptcia</b> (Adam Mickiewicz University)    |
| 09:30 – 10:00 | <b>Olle Eriksson</b> (Uppsala University)             |
| 10:00 – 10:30 | Coffee Break                                          |
| 10:30 – 11:00 | <b>Mikhail Katsnelson</b> (Radboud University)        |
| 11:00 – 11:30 | <b>Uwe Bovensiepen</b> (University of Duisburg-Essen) |
| 11:30 – 12:00 | Discussion                                            |
| 12:00 – 14:00 | <b>Lunch Break</b>                                    |

*Session 4: Strong-field phenomena – Nonlinear x-ray matter interaction and spectroscopy (14:00 – 17:00)*

14:00 – 14:30 **Olga Smirnova** (Max Born Institute)

14:30 – 15:00 **Joshua Kas** (University of Washington)

15:00 – 15:30 Coffee Break

15:30 – 16:00 **Pedro Velarde** (Polytechnic University of Madrid)

16:00 – 16:30 **Laurent Mercadier** (European XFEL)

16:30 – 17:00 Discussion

17:00 – 18:00 **Guided Tour through DESY**

### Friday, 28 November 2025

**CFEL Seminar rooms I-III, CFEL (Building 99), DESY, Hamburg**

*Session 5: Extreme states of matter – From planetary science to inertial fusion energy research (09:00 – 12:00)*

09:00 – 09:30 **Tobias Dornheim** (Helmholz-Zentrum Dresden-Rossendorf)

09:30 – 10:00 **Ronald Redmer** (University of Rostock)

10:00 – 10:30 Coffee Break

10:30 – 11:00 **Dirk Gericke** (University of Warwick)

11:00 – 11:30 **Dominik Kraus** (University of Rostock)

11:30 – 11:50 Discussion

11:50 – 12:00 **Close-out**