

Session Program

21-25 Sept 2026



Science@FELS

Solid State Physics

Paul Scherrer Institut, Auditorium (WHGA/001)

Monday 21 September

08:30

Solid State Physics

Session | **Location:** Paul Scherrer Institut, Auditorium (WHGA/001) | **Convener:** Luc Patthey

08:30–09:10 **Disentangling coherent dynamics in solids with x-rays (Tutorial)**

Speaker

Steven Johnson

09:10–09:35

Photoexcited transient states in correlated quantum materials investigated by time-resolved RIXS

Speaker

Giacomo Ghiringhelli

09:35–10:00

Collective Magnetic Excitations in a Photo-excited Electron-doped Cuprate Superconductor

Speaker

Wei-Sheng Lee

10:00–10:15

Ultrafast phase transition of silicon monitored by soft x-ray absorption spectroscopy

Speaker

Zeinab Ebrahimpour

10:15–10:30

Escaping electronic damage using ultrafast X-ray pulses

Speaker

Jakub Vonka

10:30

Tuesday 22 September

14:00

Solid State Physics

Session | **Location:** Paul Scherrer Institut, Auditorium (WHGA/001) | **Convener:** Dr Simon Gerber

14:00–14:25

Quantifying angular momentum of coherently driven circular phonons

Speaker

Roman Mankowsky

14:25–14:50

Ultrafast terahertz manipulation of exciton complexes in 2D semiconductors

Speaker

Tommaso Venanzi

14:50–15:05

Terahertz saturable absorption from relativistic high-temperature thermodynamics in black phosphorus

Speaker

Nidhi Adhlakha

15:05–15:20

Sum- Frequency Generation Spectro-Microscopy using the FHI-FEL

Speaker

Dorothee Mader

15:20–15:35

EUV diffuse scattering spectroscopy of nanoscale surface phonon anisotropy in optically excited FeRh

Speaker

Naman Agarwal

15:35–16:00

Shear wave propagation imaged inside crystalline semiconductors after below melting threshold using Diffraction Near Field X-ray Microscopy

Speaker

Angel Rodriguez Fernandez

16:00

16:30

Solid State Physics

Session | **Location:** Paul Scherrer Institut, Auditorium (WHGA/001)

16:30–16:55

Ultraconfined Terahertz Phonon Polaritons in Hafnium Dichalcogenides

Speaker

Alexander Paarmann

16:55–17:10

Imaging the non-equilibrium dynamics of resonantly excited metal nanorods

Speaker

Dr Omkar Rambadey

17:10-17:35

Structural Origin of the Magnetic Field-Induced Electric Polarization of GdMnO_5 **Speaker**

Karina Kazarian

17:35-17:50

Ultrafast Coherent Diffraction Imaging and Bragg CDI on individual Gold Nanoparticles**Speaker**

Rasmus Buchin

17:50-18:05

EUV Diffuse Scattering for Nanoscale Acoustic Phonons and Thermoelasticity**Speaker**

Alessandra Milloch

18:05-18:20

Pilot tr-XPS experiments at European XFEL: From non-equilibrium charge carriers in InAs to non-equilibrium charge-density waves in TaSe_2 **Speaker**

V. N. Stokov

18:35