

**Session Program**

**2-6 Nov 2026**

**27th Symposium on Photonics and Optics  
(SPO 2026)**

***Workshop on Ultrafast Phenomena***

Online (Zoom)

# Monday 2 November

09:30

## Workshop on Ultrafast Phenomena: Session 1: Ultrafast X-ray Probes, Strain and Acoustics

**Session** | **Location:** Online (Zoom) | **Convener:** Danylo Babich

09:30–10:00

### Ultrafast Time-Resolved X-ray Scattering at XFELs to Study Nonequilibrium Phenomena in Quantum Materials

**Speaker**

Nelson Nientsu Hua

10:00–10:40

### Laser excitation of giant acoustic waves

**Speaker**

Thomas Pezeril

10:40–11:10

### Steering ultrafast phase transitions through photoexcited strain waves in quantum materials

**Speaker**

Dr Ritwika Mandal

11:10

11:25

## Workshop on Ultrafast Phenomena: Session 2: Photoinduced Phase Transitions

**Session** | **Location:** Online (Zoom) | **Convener:** Danylo Babich

11:25–12:05

### Is Landau Potential Picture Useful for Photoinduced Phase Transitions?

**Speaker**

Hervé Cailleau

12:05–12:35

### Ultrafast electron diffraction study of Ti<sub>3</sub>O<sub>5</sub> insulator to metal photoinduced phase transition

**Speaker**

Damien Léa

12:35–12:50

### Heat-diffusion simulations of photoinduced phase transitions in Ti<sub>3</sub>O<sub>5</sub> probed by ultrafast electron microscopy

**Speaker**

Denisa Colțuneac

12:50–13:20

### THz-induced phonon mode mixing and collective dynamics in a polar nanolattice

**Speaker**

Elizabeth Marie Skoropata

13:20

14:10

## Workshop on Ultrafast Phenomena: Session 3: THz Spintronics and Terahertz Sources

**Session** | **Location:** Online (Zoom) | **Convener:** Danylo Babich

14:10–14:50

### Coherent Sub-Picosecond Magnon Pulses for Ultrafast Spin Transport

**Speaker**

Lukáš Nádvorník

14:50–15:20

### Tabletop terahertz: generating, shaping and detecting THz pulses with 1 kHz and 80 MHz Ti:Sapphire lasers

**Speaker**

Artem Levchuk

15:20–15:50

### Role of electronics and magnonic spin-dissipation channels in terahertz spin-Hall magnetoresistance

**Speaker**

Peter Kubaščík

15:50

16:10

## Workshop on Ultrafast Phenomena: Session 4: Spin-Lattice Coupling: Experiment and Theory

**Session** | **Location:** Online (Zoom) | **Convener:** Danylo Babich

16:10–16:50

### Driving atoms to study the spin-lattice interaction

**Speaker**

Urs Staub

16:50–17:20

### Before the Pulse: Equilibrium Benchmarks for Ultrafast Magnetophononics

**Speaker**

Leonie Christine Spitz

17:20–17:50

### Coupled atomistic spin-lattice dynamics simulations of ultrafast magnetisation dynamics

**Speaker**

Maryna Pankratova

18:00