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 Ti3O5 insulator to metal photoinduced phase transition

Speaker
Damien Léa

12:35–12:50

Heat-diffusion simulations of photoinduced phase transitions in Ti_3O_5 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