

Session Program

21-25 Sept 2026



Science@FELS

Science Specific FEL Operation

Paul Scherrer Institut, Auditorium (WHGA/001)

Thursday 24 September

08:30

Science Specific FEL Operation

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

08:30–09:10

Spectator-nuclei reveal nonlinear light-matter interaction driven by an X-ray free-electron laser (Tutorial)

Speaker

Ralf Röhlsberger

09:10–09:35

New opportunities at XFELs for Mössbauer science

Speaker

Dr Miriam Gerharz

09:35–10:00

Wave-packet manipulation via phase-locked schemes at a seeded free-electron laser

Speaker

Carlo Callegari

10:00–10:15

X-ray chronoscopy in an optical pump - X-ray probe study

Speaker

Dr Wojciech Błachucki

10:15–10:30

Attosecond metrology at XFELs

Speaker

Dr Daniel Charles Haynes

10:30

11:00

Science Specific FEL Operation

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

11:00–11:25

Lasing of a Cavity-Based X-ray source

Speakers

Harald Sinn, Patrick Rauer

11:25–11:40

Experimental Demonstration of Attosecond Soft and Hard X-ray Pulse Generation with Photocathode Shaping at SwissFEL

Speaker

Dr Zhaoheng Guo

11:40–11:55

Cross-correlation measurements of the Two-Color Dual Oscillator IR FEL at FHI Berlin

Speaker

Akash Chandra Behera

11:55-12:15

Special operation modes from Instrument side (HXRSS / Attoseconds / Twin Pulses)

Speaker

Joerg Hallmann

12:15-12:30

Free electron lasers: a versatile tool to investigate metasurfaces

Speaker

Amirmostafa Amirjani

12:30-12:50

X-ray FEL Science towards fusion (Tutorial part1)

Speaker

Thomas Cowan

12:50-13:10

X-ray FEL Science towards fusion (Tutorial part2)

Speaker

Harald Sinn

13:15