

Session Program

21-25 Sept 2026



Science@FELS

Nonlinear X-Ray

Paul Scherrer Institut, Auditorium (WHGA/001)

Wednesday 23 September

16:30

Nonlinear X-Ray

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

16:30–16:55

Solved and unsolved mysteries in EUV and x-ray transient gratings studies of coherent phonons and magnons

Speaker

Alexei Maznev

16:55–17:20

Four-wave mixing in the X-ray domain: Coherent nonlinear four-photon interaction with core-shell electrons

Speaker

Ana Sofia Morillo Candas

17:20–17:35

Orders of magnitude enhancement of magnetic soft X-ray transient grating signal at grazing incidence

Speaker

Peter Miedaner

17:35–18:00

Nonlinear X-ray scattering reveals EUV-polariton

Speaker

Christina Boemer

18:00–18:15

Spin Waves Excited by Hard X-Ray Transient Gratings

Speaker

Nadia Berndt

18:15–18:30

Portable nanofocusing optics for hard X-ray free-electron lasers

Speaker

Prof. Ichiro Inoue

18:30