

## Short Time-scale Physics and Applied Laser Physics Division Fachverband Kurzzeit- und angewandte Laserphysik (K)

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### Overview of Invited Talks and Sessions

(Lecture hall HS 20; Poster Philo 1. OG)

#### Invited Talks

- K 1.1 Mon 11:30–12:00 HS 20 **Explaining changes in the crystallinity of a thin gold film upon irradiation with ultrafast laser radiation by ultrafast metrology and ex situ analysis** — MARKUS OLBRICH, PETR CEJPEK, HARIPRASATH GANESAN, THEO PFLUG, ANDY ENGEL, DAVID RAFAJA, STEFAN SANDBELD, ANDRÉS FABIÁN LASAGNI, •ALEXANDER HORN
- K 5.1 Thu 11:00–11:30 HS 20 **Scientific imaging in experimental physics: from photon flux to detector requirements and challenges for scientific cameras** — •SIMON ASSMANN

#### Invited Talks of the joint Symposium SAMOP Dissertation Prize 2026 (SYAD)

See SYAD for the full program of the symposium.

- SYAD 1.1 Mon 14:30–15:00 RW 1 **What graphs can tell us about quantum information** — •KIARA HANSENNE
- SYAD 1.2 Mon 15:00–15:30 RW 1 **Realization of alkaline-earth circular Rydberg qubits in optical tweezer arrays** — •CHRISTIAN HÖLZL
- SYAD 1.3 Mon 15:30–16:00 RW 1 **Pattern Formation and Supersolid-like Sound Modes in a Driven Superfluid** — •NIKOLAS LIEBSTER
- SYAD 1.4 Mon 16:00–16:30 RW 1 **Harnessing time-frequency qudits using integrated nonlinear processes** — •LAURA SERINO

#### Invited Talks of the joint Symposium New Trends in Laser Systems and their Applications for Photonic Quantum Systems and Emerging Technologies (SYLA)

See SYLA for the full program of the symposium.

- SYLA 1.1 Tue 11:00–11:30 P 1 **3D printing of integrated optics on thin-film lithium niobate for quantum photonic applications** — •MORITZ HINKELMANN, ALEXANDRA RITTMEIER, ELISAVET CHATZIZYRLI, PHILIPP GEHRKE, MUHAMED A. SEWIDAN, ANDREAS WIENKE, DIETMAR KRACHT, MICHAEL KUES
- SYLA 1.2 Tue 11:30–12:00 P 1 **Photonic Quantum Sensors and Their Fabrication Using Femtosecond Laser Micromachining** — •TOBIAS MENOLD
- SYLA 1.3 Tue 12:00–12:30 P 1 **3D printed micro-optics: Novel fabrication enabling innovative designs** — •MICHAEL SCHMID, SIMON THIELE, NILS FAHRBACH
- SYLA 2.1 Wed 14:30–15:00 HS 20 **Low-Noise Quantum Frequency Conversion for NV-Based Quantum Network Nodes** — •BERND JUNGBLUTH, FABIAN GEUS, LUDWIG HOLLSTEIN, HANS HUBER, FLORIAN ELSSEN
- SYLA 2.2 Wed 15:00–15:30 HS 20 **ZEISS Innovation: EUV lithography, a European Success story** — •DIRK HEINRICH EHM
- SYLA 2.3 Wed 15:30–16:00 HS 20 **Advancements in Infrared Spectroscopy with Undetected Photons** — •CHIARA LINDNER, FRANK KÜHNEMANN

SYLA 2.4	Wed	16:00–16:30	HS 20	<b>Ultrafast 2<math>\mu</math>m fiber lasers for scientific and industrial applications</b> — TOBIAS HEUERMANN, CHRISTIAN KERN, ZIYAO WANG, EVGENY SHESTAIEV, •OLIVER HERRFURTH, CHRISTIAN GAIDA, TINO EIDAM
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## Invited Talks of the joint Symposium Laser Driven X-Rays: Generation and Application (SYLX)

See SYLX for the full program of the symposium.

SYLX 1.1	Fri	14:30–15:00	RW 1	<b>Laserstrahlquellen als Treiber für Sekundärstrahlquellen</b> — •TORSTEN MANS, DOMINIK BAUER, THOMAS METZGER, DOMINIK ERTEL, CLAUS SCHNITZLER, TINO EIDAM
SYLX 1.2	Fri	15:00–15:30	RW 1	<b>Development and Integration of Novel LPP Radiation Sources for Enhanced Characterization and Industrial Application</b> — LION GÜNSTER, LUKE PETERSEN, PHILIP MOSEL, PEER BIESTERFELD, SVEN FRÖHLICH, JOSE MAPA, GRETA PARUSCHKE, PIA KOOPMANN, BIANCA IWAN, UWE MORGNER, •MILUTIN KOVACEV
SYLX 1.3	Fri	15:30–16:00	RW 1	<b>Near-relativistic ytterbium fiberlaser plasma source for high-flux hard X-ray generation from a liquid-metal jet</b> — •ROBERT KLAS, MAXIMILIAN BENNER, MOHAMMED ALMASSARANI, MAXIMILIAN KARST, LUCAS EISENBACH, PHILIPP GIERSCHE, WARUNYA RÖDER, ARNO KLENKE, JAN ROTH-HARDT, JENS LIMPET
SYLX 1.4	Fri	16:00–16:30	RW 1	<b>Laser-driven X-ray generation for industrial applications</b> — •JOHANNES MAXIMILIAN EBERT, KLAUS BERGMANN, SARAH KLEIN, MARTIN TRAUB, JOCHEN VIEKER, STEPHAN HERMAN WISSENBERG, HANS-DIETER HOFFMANN

## Sessions

K 1.1–1.6	Mon	11:30–13:15	HS 20	<b>Laser Systems and their Applications I</b>
K 2.1–2.3	Mon	17:00–17:45	HS 20	<b>Laser Systems and their Applications II</b>
K 3.1–3.4	Mon	17:45–18:45	HS 20	<b>THz, EUV and X-Ray Sources and their Application</b>
K 4.1–4.19	Tue	17:00–19:00	Philo 1. OG	<b>Poster (joint session K/Q)</b>
K 5.1–5.5	Thu	11:00–12:30	HS 20	<b>Optical Methods</b>
K 6	Thu	12:30–13:00	HS 20	<b>Members' Assembly</b>

## Members' Assembly of the Short Time-scale Physics and Applied Laser Physics Division

Thursday 12:30–13:00 HS 20

- Bericht
- Verschiedenes