

## Short Time-scale Physics and Applied Laser Physics Division Fachverband Kurzzeitphysik (K)

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### Overview of Invited Talks and Sessions

(Lecture rooms MB HS; Poster Wassersaal)

#### Invited Talks

K 1.1	Mon	14:00–14:40	MB HS	<b>Abklingzeit, Zufall und Information</b> — ●RUDOLF GERMER
K 2.1	Mon	16:15–16:45	MB HS	<b>Leistungsfähigkeit und Entwicklungsrichtungen moderner Bildsensoren und Kamerasysteme</b> — ●GERHARD HOLST
K 3.1	Tue	14:00–14:30	MB HS	<b>Glass joining by ultra-short pulsed lasers</b> — ●KRISTIAN CVECEK, JOHANNES HEBERLE, ISAMU MIYAMOTO, MICHAEL SCHMIDT
K 4.1	Wed	14:00–14:30	MB HS	<b>Experimental Results from the Development of a Triggered Vacuum Switch (TVS) at the Pohang Accelerator Laboratory (PAL)</b> — ●KLAUS FRANK, WUNG HOA PARK, SUK HO AN, BYUNG JOON LEE

#### Invited Talks of the Internal Symposium Optic Coatings and Plasma Technology

K 7.1	Thu	10:30–11:00	MB HS	<b>A global model for radio frequency magnetron sputtering processes</b> — ●DENNIS ENGEL, LAURA KROLL, RALF PETER BRINKMANN
K 7.2	Thu	11:00–11:30	MB HS	<b>The Multipole Resonance Probe as a powerful diagnostic tool for industrial plasma processes</b> — ●MORITZ OBERBERG, STEFAN RIES, CHRISTIAN WÖLFEL, JENS HARHAUSEN, DENNIS POHLE, CHRISTIAN SCHULZ, OLIVER SCHMIDT, WLADISLAW DOBRYGIN, ILONA ROLFES, RALF PETER BRINKMANN, PETER AWAKOWICZ
K 7.3	Thu	11:30–12:00	MB HS	<b>Prospects for the enhancement of PIAD processes by monitoring of optical thickness and plasma parameters</b> — ●JENS HARHAUSEN, RÜDIGER FOEST, MARGARITA BAEVA, DETLEF LOFFHAGEN, OLAF STENZEL, STEFFEN WILBRANDT, CHRISTIAN FRANKE, NORBERT KAISER, RALF PETER BRINKMANN
K 7.4	Thu	12:00–12:30	MB HS	<b>Stabilisierung von Rate und Schichtdickenuniformität im IBS-Prozess über adaptiv geregelte Prozessparameter</b> — ●FLORIAN CARSTENS, HENRIK EHLERS, DETLEV RISTAU
K 7.5	Thu	12:30–13:00	MB HS	<b>Structural and optical properties of virtual materials</b> — ●HOLGER BADORRECK, MARCO JUPÉ, DETLEV RISTAU

#### Invited talks of the joint symposium SYPS

See SYPS for the full program of the symposium.

SYPS 1.1	Mon	14:00–14:30	RW HS	<b>Floquet engineering of interacting quantum gases in optical lattices</b> — ●ANDRÉ ECKARDT
SYPS 1.2	Mon	14:30–15:00	RW HS	<b>Experiments on driven quantum gas and surprises</b> — ●CHENG CHIN
SYPS 1.3	Mon	15:00–15:30	RW HS	<b>Exploring 4D Quantum Hall Physics with a 2D Topological Pumps</b> — ●ODED ZILBERBERG, MICHAEL LOHSE, CHRISTIAN SCHWEIZER, IMMANUEL BLOCH, HANNAH PRICE, YAACOV KRAUS, SHENG HUANG, MOHAN WANG, KEVIN CHEN, JONATHAN GUGLIELMON, MIKAEL RECHTSMAN

SYPS 1.4	Mon	15:30–16:00	RW HS	<b>Floquet Discrete Time Crystals in a Trapped-Ion Quantum Simulator</b> — ●GUIDO PAGANO, JIEHANG ZHANG, PAUL HESS, ANTONIS KYPRIANIDIS, PATRICK BECKER, JACOB SMITH, AARON LEE, NORMAN YAO, TOBIAS GRASS, ALESSIO CELI, MACIEJ LEWENSTEIN, CHRISTOPHER MONROE
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### Invited Talks of the Joint Symposium SYAD

See SYAD for the full program of the symposium.

SYAD 1.1	Tue	10:30–11:00	RW HS	<b>Integrated photonic quantum walks in complex lattice structures</b> — ●MARKUS GRAEFE
SYAD 1.2	Tue	11:00–11:30	RW HS	<b>Testing the Quantumness of Atom Trajectories</b> — ●CARSTEN ROBENS
SYAD 1.3	Tue	11:30–12:00	RW HS	<b>Engineering and probing topological bands with ultracold atoms</b> — ●NICK FLÄSCHNER
SYAD 1.4	Tue	12:00–12:30	RW HS	<b>Statistical signatures of many-particle interference</b> — ●MATTIA WALSCHAERS

### Invited Talks of the Joint Symposium SYPT

See SYPT for the full program of the symposium.

SYPT 1.1	Thu	10:30–11:00	M 00.910	<b>Pseudospark Research in Southern California</b> — ●MARTIN GUNDERSEN
SYPT 1.2	Thu	11:00–11:30	M 00.910	<b>Features of a hollow-cathode discharge in pseudospark switches</b> — ●YURI KOROLEV
SYPT 1.3	Thu	11:30–12:00	M 00.910	<b>Overview of R&amp;D Activities on Vacuum and Gas Discharges and Their Applications in South Korea</b> — ●SANG HOON NAM
SYPT 1.4	Thu	12:00–12:30	M 00.910	<b>Plasma Stripper, Plasma Window, Plasma Gun as Applications of Discharge Plasmas</b> — ●JOACHIM JACOBY
SYPT 2.1	Thu	14:00–14:30	M 00.910	<b>Plasmaphysical Basics of Vacuum Switching Devices for High Currents and Voltages</b> — ●NORBERT WENZEL
SYPT 2.2	Thu	14:30–15:00	M 00.910	<b>Discharge inception and breakdown in weakly and strongly electronegative gas in HV switchgear applications</b> — ●MARTIN SEEGER
SYPT 2.3	Thu	15:00–15:30	M 00.910	<b>Plasma Technological Research for Electrical Engineering and Medicine</b> — ●DIRK UHRLANDT
SYPT 2.4	Thu	15:30–16:00	M 00.910	<b>Progress in Understanding Arc-Electrode Interaction</b> — ●JÜRGEN MENTEL

### Sessions

K 1.1–1.6	Mon	14:00–15:55	MB HS	<b>Optical Methods - EUV and x-ray Sources</b>
K 2.1–2.5	Mon	16:15–17:45	MB HS	<b>Optical Methods - Light and Radiation Sources</b>
K 3.1–3.7	Tue	14:00–16:00	MB HS	<b>Laser Systems and Applications</b>
K 4.1–4.6	Wed	14:00–15:45	MB HS	<b>Pulsed Power - Laser-Beam Matter Interaction</b>
K 5	Wed	15:45–16:00	MB HS	<b>Annual General Meeting of the Short Time-scale Physics and Applied Laser Physics Division</b>
K 6.1–6.9	Wed	16:15–18:15	Orangerie	<b>Poster</b>
K 7.1–7.5	Thu	10:30–13:00	MB HS	<b>Internal Symposium Optic Coatings and Plasma Technology</b>

### Annual General Meeting of the Short Time-scale Physics and Applied Laser Physics Division

Mittwoch 15:45–16:00 Raum M HS

- Bericht des Vorsitzenden
- Tagungsplanung
- Verschiedenes