

Plasma Physics Division Fachverband Plasmaphysik (P)

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Overview of Invited Talks and Sessions

(Lecture rooms A 0.112 and KI 1.174; Poster Redoutensaal and Zelt Ost/West)

Invited Talks

P 2.1	Mon	10:30–11:00	KI 1.174	Key Features of Reactive High Power Impulse Magnetron Sputtering — ●DANIEL LUNDIN
P 4.1	Mon	14:00–14:30	KI 1.174	High-resolution spectroscopic and electrical diagnostics of barrier discharges — ●TOMAS HODER
P 6.1	Mon	16:15–16:45	KI 1.174	Collisionless damping in the spectra of active plasma resonance spectroscopic probes — ●JENS OBERRATH
P 7.1	Tue	10:30–11:00	A 0.112	Plasma Edge Physics with 3D Magnetic Boundaries - an Overview — ●OLIVER SCHMITZ
P 8.1	Tue	10:30–11:00	KI 1.174	Life in the void: nanoparticle formation in reactive plasmas — ●FERDI VAN DE WETERING
P 9.1	Tue	14:00–14:30	A 0.112	Next generation gases in gas discharge applications. — ●CHRISTIAN FRANCK
P 10.1	Tue	14:00–14:30	KI 1.174	Self-consistent theory of radiation friction losses in ultraintense laser-plasma interaction — ●TATYANA LISEYKINA, SERGEY POPRUZHENKO, ANDREA MACCHI
P 16.1	Wed	14:00–14:30	KI 1.174	Diagnostics and application of reactivity of atmospheric plasmas in studies relevant for plasma medicine — ●JAN BENEDIKT, MOHAMED MOKHTAR HEFNY, GERT WILLEMS, PASCAL VOGEL, CLARA KARCZEWSKI, JULIA BANDOW, PETR LUKES
P 23.1	Thu	10:30–11:00	A 0.112	Advanced Materials for a Damage Resilient Divertor for DEMO — ●JAN WILLEM COENEN, JOHANN RIESCH, HANNS GIETL, YIRAN MAO, LEONARD RAUMANN, RUDOLF NEU, CHRISTIAN LINSMEIER
P 24.1	Thu	10:30–11:00	KI 1.174	Transient plasma photonic crystals as novel optical devices for high-intensity lasers — ●GÖTZ LEHMANN, KARL-HEINZ SPATSCHKE

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	Floquet engineering of interacting quantum gases in optical lattices — ●ANDRÉ ECKARDT
SYPS 1.2	Mon	14:30–15:00	RW HS	Experiments on driven quantum gas and surprises — ●CHENG CHIN
SYPS 1.3	Mon	15:00–15:30	RW HS	Exploring 4D Quantum Hall Physics with a 2D Topological Pumps — ●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	Floquet Discrete Time Crystals in a Trapped-Ion Quantum Simulator — ●GUIDO PAGANO, JIEHANG ZHANG, PAUL HESS, ANTONIS KYPRIANIDIS, PATRICK BECKER, JACOB SMITH, AARON LEE, NORMAN YAO, TOBIAS GRASS, ALESSIO CELI, MACIEJ LEWENSTEIN, CHRISTOPHER MONROE

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	Integrated photonic quantum walks in complex lattice structures — •MARKUS GRAEFE
SYAD 1.2	Tue	11:00–11:30	RW HS	Testing the Quantumness of Atom Trajectories — •CARSTEN ROBENS
SYAD 1.3	Tue	11:30–12:00	RW HS	Engineering and probing topological bands with ultracold atoms — •NICK FLÄSCHNER
SYAD 1.4	Tue	12:00–12:30	RW HS	Statistical signatures of many-particle interference — •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	Pseudospark Research in Southern California — •MARTIN GUNDER- SEN
SYPT 1.2	Thu	11:00–11:30	M 00.910	Features of a hollow-cathode discharge in pseudospark switches — •YURI KOROLEV
SYPT 1.3	Thu	11:30–12:00	M 00.910	Overview of R&D Activities on Vacuum and Gas Discharges and Their Applications in South Korea — •SANG HOON NAM
SYPT 1.4	Thu	12:00–12:30	M 00.910	Plasma Stripper, Plasma Window, Plasma Gun as Applications of Discharge Plasmas — •JOACHIM JACOBY
SYPT 2.1	Thu	14:00–14:30	M 00.910	Plasmaphysical Basics of Vacuum Switching Devices for High Cur- rents and Voltages — •NORBERT WENZEL
SYPT 2.2	Thu	14:30–15:00	M 00.910	Discharge inception and breakdown in weakly and strongly elec- tronegative gas in HV switchgear applications — •MARTIN SEEGER
SYPT 2.3	Thu	15:00–15:30	M 00.910	Plasma Technological Research for Electrical Engineering and Medicine — •DIRK UHRLANDT
SYPT 2.4	Thu	15:30–16:00	M 00.910	Progress in Understanding Arc-Electrode Interaction — •JÜRGEN MENTEL

Sessions

P 1.1–1.6	Mon	10:30–13:00	A 0.112	Helmholtz Graduate School I - Theory
P 2.1–2.7	Mon	10:30–12:30	KI 1.174	Low Pressure Plasmas I
P 3.1–3.8	Mon	14:00–16:00	A 0.112	Plasma Wall Interactions I / Astrophysical Plasmas
P 4.1–4.7	Mon	14:00–16:00	KI 1.174	Atmospheric Pressure Plasmas I
P 5.1–5.4	Mon	16:15–17:55	A 0.112	Helmholtz Graduate School II
P 6.1–6.5	Mon	16:15–17:45	KI 1.174	Codes and Modelling
P 7.1–7.5	Tue	10:30–12:40	A 0.112	Magnetic Confinement I - Helmholtz Graduate School III
P 8.1–8.6	Tue	10:30–12:25	KI 1.174	Complex Plasmas and Dusty Plasmas I
P 9.1–9.7	Tue	14:00–16:00	A 0.112	Atmospheric Pressure Plasmas II
P 10.1–10.7	Tue	14:00–16:00	KI 1.174	Laser Plasmas I
P 11.1–11.33	Tue	16:15–18:15	Redoutensaal	Helmholtz Graduate School - Poster
P 12.1–12.14	Tue	16:15–18:15	Redoutensaal	Magnetic Confinement - Poster
P 13.1–13.17	Tue	16:15–18:15	Redoutensaal	Low Pressure Plasmas - Poster
P 14.1–14.4	Tue	16:15–18:15	Redoutensaal	Astrophysical Plasmas - Poster
P 15.1–15.5	Wed	14:00–16:05	A 0.112	Helmholtz Graduate School IV - Plasma Wall Interaction
P 16.1–16.7	Wed	14:00–16:00	KI 1.174	Low Pressure Plasmas II
P 17.1–17.12	Wed	16:15–18:15	Zelt Ost	Atmospheric Pressure Plasmas - Poster
P 18.1–18.3	Wed	16:15–18:15	Zelt Ost	Plasma Wall Interaction I - Poster
P 19.1–19.9	Wed	16:15–18:15	Zelt Ost	Codes and Modelling - Poster
P 20.1–20.8	Wed	16:15–18:15	Zelt West	Plasma Wall Interaction II - Poster
P 21.1–21.10	Wed	16:15–18:15	Zelt West	Laser Plasmas - Poster
P 22.1–22.6	Wed	16:15–18:15	Zelt West	Complex Plasmas and Dusty Plasmas - Poster
P 23.1–23.5	Thu	10:30–12:00	A 0.112	Plasma Wall Interaction II
P 24.1–24.5	Thu	10:30–12:00	KI 1.174	Laser Plasmas II
P 25	Thu	12:00–13:00	A 0.112	Annual General Meeting of the Plasma Physics Division
P 26.1–26.6	Thu	14:00–16:30	A 0.112	Magnetic Confinement II - Helmholtz Graduate School V
P 27.1–27.7	Thu	14:00–15:55	KI 1.174	Complex Plasmas and Dusty Plasmas II

Annual General Meeting of the Plasma Physics Division

Thursday 12:00–13:00 A 0.112

- Report
- Elections
- Locations of the DPG 2019 and 2020
- Presentation of the Poster Prizes

Conference Language

The default conference language of the Plasma Physics Division of the DPG is English to allow the conference attendance of international researchers from abroad as well as from German plasma groups.