

Plasma Physics Division (P)

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Overview of Invited Talks and Sessions

(lecture rooms B 302 and B 305; poster Lichthof)

Invited Talks

P 4.1	Tu	11:40–12:10	B 305	Experiments and Simulations of Dusty Plasmas — ●ANDRE MELZER
P 4.2	Tu	12:10–12:40	B 305	Electrostatic microparticle propulsion for space flights — ●THOMAS TROT- TENBERG, VIKTOR SCHNEIDER, HOLGER KERSTEN
P 11.1	We	11:00–11:30	B 305	Intermittent plasma transport — ●THOMAS WINDISCH, OLAF GRULKE, THOMAS KLINGER
P 11.2	We	11:30–12:00	B 305	Structure formation in drift-wave turbulence — ●PETER MANZ, MIRKO RAMISCH, ULRICH STROTH
P 11.3	We	12:00–12:30	B 305	Dynamic behaviour of dc discharges — ●DETLEF LOFFHAGEN, FLORIAN SIGE- NEGER
P 11.4	We	12:30–13:00	B 305	The numerical simulation of diffuse axial magnetic field vacuum arcs — ●ANDREAS HAUSER, WERNER HARTMANN, ANDREAS LAWALL, ROMAN RENZ, NORBERT WENZEL
P 15.1	Th	11:00–11:30	B 305	Hydrogen retention in tungsten - from laboratory experiments to ITER — ●MATEJ MAYER, OLGA OGORODNIKOVA, VOLKER ROHDE, JOACHIM ROTH, PWI TEAM, ASDEX UPGRADE TEAM
P 15.2	Th	11:30–12:00	B 305	Active control of tokamak instabilities by resonant magnetic perturba- tions — ●YUNFENG LIANG
P 15.3	Th	12:00–12:30	B 305	The latest experimental results for the edge transport barrier in toka- maks — ●ELISABETH WOLFRUM, BERND WIELAND, PHILIP SCHNEIDER, AN- DREAS BURCKHART, BERND KURZAN, RAINER FISCHER, THOMAS PUETTERICH, ASDEX UPGRADE TEAM
P 15.4	Th	12:30–13:00	B 305	Physik der Mikroplasmen — ●VOLKER SCHULZ-VON DER GATHEN

Invited talks of the joint symposium SYDP

See SYDP for the full program of the Symposium.

SYDP 1.1	Mo	16:30–17:00	F 107	Experimental all-optical one-way quantum computing — ●ROBERT PREVEDEL
SYDP 1.2	Mo	17:00–17:30	F 107	Benchmarks and statistics of entanglement dynamics — ●MARKUS TIER- SCH
SYDP 1.3	Mo	17:30–18:00	F 107	Squeezed Light For Gravitational Wave Astronomy — ●HENNING VAHLBRUCH
SYDP 1.4	Mo	18:00–18:30	F 107	High-precision mass measurements with Penning traps — ●SEBASTIAN GEORGE

Invited talks of the joint symposium SYLA

See SYLA for the full program of the Symposium.

SYLA 1.1	We	14:00–14:30	E 415	How the laser happend — ●HERBERT WELLING
SYLA 1.2	We	14:30–15:00	E 415	The origin of the quantum theory of lasing — ●FRITZ HAAKE
SYLA 1.3	We	15:00–15:30	E 415	Lasers for precision measurements — ●THOMAS UDEM
SYLA 1.4	We	15:30–16:00	E 415	Short, Ultra Short, Atto Short — ●DIETRICH VON DER LINDE

SYLA 2.1	We	16:30–17:00	E 415	Our Daily Life with Semiconductor Lasers — ●DIETER BIMBERG
SYLA 2.2	We	17:00–17:30	E 415	Power to the Industry - the story of Laser upscaling — ●REINHART POPRAWÉ
SYLA 2.3	We	17:30–18:00	E 415	The Outstanding Qualities of Fiber Lasers and Thin Disk Lasers — ●ADOLF GIESEN
SYLA 2.4	We	18:00–18:30	E 415	Solid State Lasers:meeting the challenges of the 21st Century — ●ROBERT L. BYER

Invited talks of the joint symposium SYMP

See SYMP for the full program of the Symposium.

SYMP 1.1	We	14:00–14:30	A 001	Cold atmospheric argon plasma significantly decreases bacterial load of chronic wounds in patients — ●GEORG ISBARY, WILHELM STOLZ, HANS-ULRICH SCHMIDT, TETSUJI SHIMIZU, BERND STEFFES, JULIA ZIMMERMANN, TETYANA NOSENKO, WOLFRAM BUNK, ROBERTO MONETTI, GREGOR MORFILL
SYMP 1.2	We	14:30–15:00	A 001	Cold atmospheric plasma jet for potential dentistry use — ●AXEL SCHINDLER, ANTJE LEHMANN, STEFAN RUPF, MATTHIAS HANNIG
SYMP 1.3	We	15:00–15:30	A 001	Risk Assessment of the Application of a Plasma-Jet in Dermatology — ●JÜRGEN LADEMANN, HEIKE RICHTER, ALEXA PATZELT, AXEL KRAMER, PETER HINZ, KLAUS-DIETER WELTMANN, BERND HARTMANN, NILS-OLAF HÜBNER, OLAF LADEMANN
SYMP 1.4	We	15:30–16:00	A 001	Plasmachemical Processes for Bioactive Titanium Implant Surfaces — ●KARSTEN SCHRÖDER, MARTIN POLAK, BIRGIT FINKE, ANDREAS OHL, INA KOBAN, THOMAS KOCHER, BARBARA NEBE, RAINER BADER, GEROLD LUKOWSKI, MICHAEL SCHLOSSER, KLAUS-DIETER WELTMANN
SYMP 1.5	We	16:30–17:00	A 001	Pulsed electric field degrades melanoma cells — ●UWE PLIQUETT, RICHARD NUCHITELLI
SYMP 1.6	We	17:00–17:30	A 001	Pulsed electric field application as a cell disintegration and decontamination technique for food-, bio- and environmental engineering — ●VOLKER HEINZ, STEFAN TOEPFL
SYMP 1.7	We	17:30–18:00	A 001	Effects of Microsecond- and Nanosecond-Pulsed-Electric-Fields on Plant Cells — ●THOMAS BERGHÖFER, BIANCA FLICKINGER, CHRISTIAN EING, MARTIN SACK, PETRA HOHENBERGER, PETER NICK, MICHAEL PACHER, HOLGER PUCHTA, WOLFGANG FREY
SYMP 1.8	We	18:00–18:30	A 001	Electrochemotherapy - An efficient electroporation based tumor treatment — ●DAMIJAN MIKLAVCIC

Invited talks of the joint symposium SYPS

See SYPS for the full program of the Symposium.

SYPS 1.1	Fr	11:00–11:30	A 001	Status of QED tests in heavy highly charged ions — ●PAUL INDELICATO
SYPS 1.2	Fr	11:30–12:00	A 001	Penning trap mass spectrometry with highly charged ions — ●SZILARD NAGY
SYPS 1.3	Fr	12:00–12:30	A 001	Diagnostic of Hot Dense Plasmas by Advanced XUV and X-ray Spectroscopy — ●INGO USCHMANN
SYPS 1.4	Fr	12:30–13:00	A 001	Measurements of masses and beta-lifetimes of stored exotic highly charged ions — ●FRITZ BOSCH
SYPS 2.1	Fr	14:00–14:30	A 001	Exciting and ionizing trapped highly charged ions with electrons and photons in an EBIT — ●JOSÉ R. CRESPO LOPÉZ-URRUTIA
SYPS 2.2	Fr	14:30–15:00	A 001	Precision x-ray spectroscopy of intense laser-plasma interaction experiments — ●NIGEL WOOLSEY

Sessions

P 1.1–1.9	Mo	14:00–16:25	B 302	Plasmatechnology
P 2.1–2.14	Mo	14:00–18:10	B 305	Diagnostics
P 3.1–3.4	Mo	16:45–17:45	B 302	Dusty Plasmas

P 4.1–4.2	Tu	11:40–12:40	B 305	Invited Talks Melzer, Trottenberg
P 5.1–5.6	Tu	14:15–15:55	B 302	Theory/Modelling I
P 6.1–6.7	Tu	14:15–16:10	B 305	Low Temperature Plasmas I
P 7.1–7.20	Tu	16:00–18:00	Lichthof	Poster: Dusty Plasmas
P 8.1–8.23	Tu	16:00–18:00	Lichthof	Poster: Low Temperature Plasmas I
P 9.1–9.11	Tu	16:00–18:00	Lichthof	Poster: Plasmatechnology
P 10.1–10.5	Tu	16:00–18:00	Lichthof	Poster: Theory/Modelling I
P 11.1–11.4	We	11:00–13:00	B 305	Invited Talks Windisch, Manz, Loffhagen, Hauser
P 12.1–12.4	We	14:30–15:40	B 302	Theory/Modelling II
P 13.1–13.10	We	14:30–17:30	B 305	Magnetic Confinement
P 14.1–14.7	We	16:30–18:15	B 302	Miscellaneous
P 15.1–15.4	Th	11:00–13:00	B 305	Invited Talks Mayer, Liang, Wolfrum, Schulz-von der Gathen
P 16.1–16.6	Th	14:15–15:55	B 302	Plasma-Wall Interaction
P 17.1–17.5	Th	14:15–15:50	B 305	Low Temperature Plasmas II
P 18.1–18.21	Th	16:00–18:00	Lichthof	Poster: Diagnostics
P 19.1–19.11	Th	16:00–18:00	Lichthof	Poster: Low Temperature Plasmas II
P 20.1–20.6	Th	16:00–18:00	Lichthof	Poster: Magnetic Confinement
P 21.1–21.4	Mo	16:00–18:00	Lichthof	Poster: Plasma-Wall Interaction
P 22.1–22.7	Th	16:00–18:00	Lichthof	Poster: Theory/Modelling II
P 23.1–23.4	Th	16:00–18:00	Lichthof	Poster: Miscellaneous

Mitgliederversammlung des Fachverbands Plasmaphysik

Dienstag 12:40–13:10 B 305