

## Plasma Physics Division Fachverband Plasmaphysik (P)

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### Overview of Invited Talks and Sessions

(Lecture rooms: SPA HS201 and HS 202, Kinosaal; Posters: SPA Foyer)

#### Invited Talks

P 1.1	Mon	10:30–11:00	SPA HS201	<b>Complex Plasmas: Particle-resolved Studies of Classical Liquids and Solids</b> — ●ALEXEI IVLEV
P 2.1	Mon	10:30–11:00	SPA HS202	<b>Die Physik intermittenter Transportprozesse in der Randschicht von Fusionsplasmen</b> — ●GREGOR BIRKENMEIER, PETER MANZ, DANIEL CARRALERO, FLORIAN LAGGNER, MATTHIAS WILLENSDORFER, ELISABETH WOLFRUM, GOLO FUCHERT, ULRICH STROTH, DAS ASDEX UPGRADE TEAM
P 3.1	Mon	14:00–14:30	SPA HS201	<b>Spots on cathodes of DC glow and arc discharges: self-organization theory and its applications</b> — ●MIKHAIL BENILOV
P 3.2	Mon	14:30–15:00	SPA HS201	<b>Simulation technischer Plasmen</b> — ●THOMAS MUSSENBRÖCK
P 4.1	Mon	14:00–14:30	SPA HS202	<b>Collective modes of nonideal quantum systems in traps: from nanoplasmas to cold atoms</b> — ●JAN WILLEM ABRAHAM, MICHAEL BONITZ
P 5.1	Mon	16:30–17:00	SPA HS201	<b>Guide field effects on magnetic reconnection</b> — ●ADRIAN VON STECHOW, OLAF GRULKE, THOMAS KLINGER
P 8.1	Tue	10:30–11:00	SPA HS201	<b>Coherence imaging spectroscopy: A new method for measuring plasma dynamics</b> — ●OLIVER P. FORD, JOHN HOWARD, MATTHIAS REICH, JAKOB SVENSSON, ROBERT WOLF
P 9.1	Tue	10:30–11:00	SPA HS202	<b>FEL excited dense plasmas</b> — ●BEATA ZIAJA-MOTYKA
P 10.1	Tue	14:00–14:30	SPA HS201	<b>Multiscale simulation of dust clusters in a strongly magnetized flowing plasma</b> — ●PATRICK LUDWIG, HANNO KÄHLERT, JAN-PHILIP JOOST, CHRISTOPHER ARRAN, MICHAEL BONITZ
P 11.1	Tue	14:00–14:30	SPA HS202	<b>Simulation and optimisation of turbulence in stellarators</b> — ●PAVLOS XANTHOPOULOS, PER HELANDER, HARRY MYNICK, YURIY TURKIN, FRANK JENKO, TOBIAS GOERLER, DANIEL TOLD, GABRIEL G. PLUNK, THOMAS BIRD, JOSEFINE H.E. PROLL
P 11.2	Tue	14:30–15:00	SPA HS202	<b>Der Turbulenz auf der Spur durch Vergleiche von Reflektometriemessungen mit gyrokinetischen Simulationen</b> — ●TIM HAPPEL, ALEJANDRO BAÑÓN NAVARRO, GARRARD D. CONWAY, FRANK JENKO, ULRICH STROTH, DAS ASDEX UPGRADE TEAM
P 21.1	Thu	10:30–11:00	SPA HS201	<b>HVDC Insulator Charging in SF6 Insulated Systems</b> — ●UELI STRAUMANN, UWE RIECHERT, ROBIN GREMAUD, MICHAEL SCHÜLLER, CHRISTIAN M. FRANCK
P 21.2	Thu	11:00–11:30	SPA HS201	<b>Plasma based deposition of nanoparticles and nanocomposites</b> — ●THOMAS STRUNSKUS
P 22.1	Thu	10:30–11:15	SPA HS202	<b>Cosmic rays</b> — ●REINHARD SCHLICKEISER
P 23.1	Thu	14:00–14:30	SPA HS201	<b>The Franck-Hertz experiment: 100 years ago and now</b> — ●ZOLTAN DONKO, PETER MAGYAR, IHOR KOROLOV
P 25.1	Thu	16:30–17:00	SPA HS201	<b>Atmosphärendruck Plasmajet für die Untersuchung von grundlegenden Wechselwirkungsmechanismen zwischen Plasma und Bakterien</b> — ●JAN BENEDIKT, SIMON SCHNEIDER, SIMON GROSSE-KREUL, VINCENT LAYES, JAN-WILM LACKMANN, FABIAN JARZINA, ELENA STEINBORN, JULIA E. BANDOW

P 27.1	Fri	10:30–11:00	SPA HS201	<b>Production and Diagnostics of dense matter</b> — ●ERIK BRAMBRINK, ALESSANDRA BENUZZI-MOUNAIX, TOMMASO VINCI, NOROU AMADOU, GAEL HUSER, GUILLAUME MORARD, FRANCOIS GUYOT, THIBAUT DE RESSEGUIER, STEPHANE MAZEVET, NORIMASA OZAKI, MICHEL KOENIG, KOHEI MIYANISHI
P 27.4	Fri	11:30–12:00	SPA HS201	<b>Theory of high energy density matter</b> — ●JAN VORBERGER
P 28.1	Fri	10:30–11:00	SPA HS202	<b>Diagnostische Spiegel: Herausforderung für ITER</b> — ●ANDREY LITNOVSKY
P 29.1	Fri	14:00–14:30	SPA HS201	<b>Wechselwirkung von kalten Nichtgleichgewichtsjetplasmen mit der Umgebung und mit Flüssigkeiten</b> — ●STEPHAN REUTER
P 30.1	Fri	14:00–14:30	SPA HS202	<b>The material system beryllium-nitrogen-deuterium: review of recent results</b> — ●TIMO DITTMAR, R. P. DOERNER, M. KÖPPEN, A. KRETER, CH. LINSMEIER, M. OBERKOFER, T. SCHWARZ-SELINGER

### Invited talks of the joint symposium SYAD

See SYAD for the full program of the symposium.

SYAD 1.1	Tue	10:30–11:00	Audimax	<b>Rotationally resolved fluorescence spectroscopy - from neurotransmitter to conical intersection</b> — ●CHRISTIAN BRAND
SYAD 1.2	Tue	11:00–11:30	Audimax	<b>Quantum simulations with ultracold atoms: Beyond standard optical lattices</b> — ●PHILIPP HAUKE
SYAD 1.3	Tue	11:30–12:00	Audimax	<b>Degenerate quantum gases of alkaline-earth atoms</b> — ●SIMON STELLMER
SYAD 1.4	Tue	12:00–12:30	Audimax	<b>One step beyond entanglement: general quantum correlations and their role in quantum information theory</b> — ●ALEXANDER STRELTSOV

### Invited talks of the joint symposium SYOT

See SYOT for the full program of the symposium.

SYOT 2.1	Tue	10:40–11:20	SPA Kapelle	<b>Plasma und optische Technologien: PluTO</b> — ●RALF PETER BRINKMANN
SYOT 2.2	Tue	11:20–11:50	SPA Kapelle	<b>Charakterisierung von Prozessen zur plasma-ionengestützten Schichtabscheidung</b> — ●JENS HARHAUSEN, RÜDIGER FOEST, DETLEF LOFFHAGEN, ANDREAS OHL
SYOT 2.3	Tue	11:50–12:20	SPA Kapelle	<b>Plasma-ionengestützte Abscheidung von Hafnium- und Tantaloxidschichten unter Nutzung von Xenon und Argon als Arbeitsgas</b> — ●OLAF STENZEL, STEFFEN WILBRANDT, RALPH SCHLEGEL, NORBERT KAISER
SYOT 2.4	Tue	12:20–12:50	SPA Kapelle	<b>IBS: Praxis und Modellierung</b> — ●HENRIK EHLERS
SYOT 3.1	Tue	14:00–14:30	SPA Kapelle	<b>Plasmaabscheidung nanostrukturierter Barrierschichten auf Kunststoffen - Bedeutung grenzflächenchemischer Aspekte</b> — BERKEM OZKAYA, ●GUIDO GRUNDMEIER
SYOT 3.2	Tue	14:30–15:00	SPA Kapelle	<b>From target to substrate in high power pulsed magnetron plasmas</b> — ●ACHIM VON KEUDELL
SYOT 3.3	Tue	15:00–15:30	SPA Kapelle	<b>Planare Optronische Systeme - Konzept, Umsetzung und erste Ergebnisse</b> — ●LUDGER OVERMEYER
SYOT 3.4	Tue	15:30–16:00	SPA Kapelle	<b>SFB TR 123 Planare optronische Systeme (PlanOS)</b> — ●HANS ZAPPE
SYOT 3.5	Tue	16:00–16:30	SPA Kapelle	<b>Influence of the oxygen plasma parameters on the atomic layer deposition of titanium oxide</b> — ●ADRIANA SZEGHALMI, STEPHAN RATZSCH, ERNST BERNHARD KLEY

### Prize talks of the joint symposium SYAW

See SYAW for the full program of the symposium.

SYAW 1.1	Wed	14:00–14:30	Kinosaal	<b>Semicrystalline polymers - pathway of crystallization and deformation properties</b> — ●GERT STROBL
SYAW 1.2	Wed	14:30–15:00	Kinosaal	<b>A measurement of the evolution of Interatomic Coulombic Decay in the time domain</b> — ●TILL JAHNKE

SYAW 1.3	Wed	15:00–15:30	Kinosaal	<b>A one-dimensional liquid of fermions with tunable spin</b> — •MASSIMO INGUSCIO
SYAW 1.4	Wed	15:30–16:00	Kinosaal	<b>Non-equilibrium: from heat transport to turbulence (to life).</b> — •DAVID RUELLE
SYAW 2.1	Wed	16:30–17:00	Kinosaal	<b>Investigation of charge transfer efficiency of CCD image sensors for the scientific small satellite mission “AsteroidFinder”</b> — •ANDREJ KRIMLOWSKI
SYAW 2.2	Wed	17:00–17:30	Kinosaal	<b>Metrology of atomic hydrogen: from the Rydberg constant to the size of the proton</b> — •FRANÇOIS BIRABEN

### Invited talks of the joint symposium SYPA

See SYPA for the full program of the symposium.

SYPA 1.1	Thu	14:00–14:30	SPA Kapelle	<b>Cosmic Particle Acceleration</b> — •GAETANO ZIMBARDO, SILVIA PERRI
SYPA 1.2	Thu	14:30–15:00	SPA Kapelle	<b>Simulation of shock waves</b> — •FELIX SPANIER
SYPA 1.3	Thu	15:00–15:30	SPA Kapelle	<b>Dynamo experiments: A guide through dynamo theory</b> — •ANDREAS TILGNER
SYPA 1.4	Thu	15:30–16:00	SPA Kapelle	<b>Turbulent dynamo effects in astrophysical plasmas</b> — •WOLFRAM SCHMIDT, DOMINIK SCHLEICHER
SYPA 1.5	Thu	16:30–17:00	SPA Kapelle	<b>Physical Processes in the Turbulent Interstellar Medium</b> — •DIETER BREITSCHWERDT, MIGUEL DE AVILLEZ, MICHAEL SCHULREICH, JENNY FEIGE, CHRISTIAN DETTBARN

### Invited talks of the joint symposium SYPS

See SYPS for the full program of the symposium.

SYPS 1.1	Thu	14:10–14:40	Audimax	<b>Oxygen and imaging, a perfect match</b> — •DAVID PARKER
SYPS 1.2	Thu	14:40–15:10	Audimax	<b>Attosecond imaging</b> — •MARC VRAKKING
SYPS 1.4	Thu	15:25–15:55	Audimax	<b>Applications of the fast imaging Pixel Imaging Mass Spectrometry camera</b> — •MARK BROUARD
SYPS 2.1	Thu	16:30–17:00	Audimax	<b>Unraveling the dynamics of state- and conformer selected molecules fixed in space with the VMI</b> — •JOCHEN KÜPPER
SYPS 2.3	Thu	17:15–17:45	Audimax	<b>Velocity map imaging: from molecules to clusters, nanoparticles and aerosols</b> — •MICHAL FARNIK, VIKTORIYA POTERYA, JOZEF LENGYEL, ANDRIY PYSANENKO, PAVLA SVRCKOVA, JAROSLAV KOCISEK
SYPS 2.5	Thu	18:00–18:30	Audimax	<b>Velocity map imaging studies of quantum state resolved scattering at gas-solid and gas-SAMs surfaces</b> — •DAVID J. NESBITT, MONIKA GRUETTER, J. ROBERT ROSCIOLI, CARL HOFFMAN, DANIEL J. NELSON

### Sessions

P 1.1–1.6	Mon	10:30–12:25	SPA HS201	<b>Dusty Plasmas I</b>
P 2.1–2.7	Mon	10:30–12:50	SPA HS202	<b>Magnetic Confinement I</b>
P 3.1–3.6	Mon	14:00–16:00	SPA HS201	<b>Plasma Technology I</b>
P 4.1–4.4	Mon	14:00–15:15	SPA HS202	<b>Theory of Quantum Plasmas I</b>
P 5.1–5.6	Mon	16:30–18:25	SPA HS201	<b>Low Temperature Plasmas I</b>
P 6.1–6.9	Mon	16:30–18:45	SPA HS202	<b>Theory and Modelling</b>
P 7.1–7.2	Mon	17:30–18:30	Kinosaal	<b>Kernfusion</b>
P 8.1–8.5	Tue	10:30–12:00	SPA HS201	<b>Diagnostics I</b>
P 9.1–9.5	Tue	10:30–12:00	SPA HS202	<b>Theory of Quantum Plasmas II</b>
P 10.1–10.6	Tue	14:00–15:55	SPA HS201	<b>Dusty Plasmas II</b>
P 11.1–11.7	Tue	14:00–16:35	SPA HS202	<b>Magnetic Confinement II</b>
P 12.1–12.12	Tue	16:30–18:30	SPA Foyer	<b>Poster Session - Magnetic Confinement</b>
P 13.1–13.17	Tue	16:30–18:30	SPA Foyer	<b>Poster Session - Diagnostics</b>
P 14.1–14.19	Tue	16:30–18:30	SPA Foyer	<b>Poster Session - Theory and Modelling</b>
P 15.1–15.1	Tue	16:30–18:30	SPA Foyer	<b>Poster Session - Laser Plasmas</b>
P 16.1–16.5	Wed	14:00–16:05	SPA HS202	<b>Helmholtz Graduate School for Plasma Physics I</b>

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P 17.1–17.22	Wed	16:30–18:30	SPA Foyer	<b>Poster Session - Helmholtz Graduate School for Plasma Physics</b>
P 18.1–18.4	Wed	16:30–18:30	SPA Foyer	<b>Poster Session - Plasma Technology</b>
P 19.1–19.13	Wed	16:30–18:30	SPA Foyer	<b>Poster Session - Low Temperature Plasmas</b>
P 20.1–20.14	Wed	16:30–18:30	SPA Foyer	<b>Poster Session - Dusty Plasmas</b>
P 21.1–21.7	Thu	10:30–12:45	SPA HS201	<b>Plasma Technology II</b>
P 22.1–22.4	Thu	10:30–12:30	SPA HS202	<b>Helmholtz Graduate School for Plasma Physics II</b>
P 23.1–23.7	Thu	14:00–16:00	SPA HS201	<b>Low Temperature Plasmas II</b>
P 24.1–24.8	Thu	14:00–16:00	SPA HS202	<b>Laser Plasmas I</b>
P 25.1–25.6	Thu	16:30–18:15	SPA HS201	<b>Low Temperature Plasmas III</b>
P 26.1–26.3	Thu	16:30–17:15	SPA HS202	<b>Laser Plasmas II</b>
P 27.1–27.8	Fri	10:30–13:00	SPA HS201	<b>Theory of nonideal Plasmas</b>
P 28.1–28.5	Fri	10:30–12:00	SPA HS202	<b>Diagnostics II</b>
P 29.1–29.5	Fri	14:00–15:30	SPA HS201	<b>Plasma Technology III</b>
P 30.1–30.8	Fri	14:00–16:15	SPA HS202	<b>Plasma Wall Interactions</b>

## **Annual General Meeting of the Plasma Physics Division**

Wednesday 13:00–14:00 SPA HS201

- Bericht des Sprechers
- Wahl
- Verschiedenes