

Plasma Physics Division Fachverband Plasmaphysik (P)

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Overview of Invited Talks and Sessions

(Lecture halls KH 02.016, KH 01.020, KH 01.012, KH 01.013, and KS H C; Poster Redoutensaal)

Plenary Talk of the Plasma Physics Division

PV IV	Tue	9:00– 9:45	AudiMax	Basics of plasma technologies: examples for applications and diagnostics — •HOLGER KERSTEN
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Invited Talks

P 3.1	Mon	16:15–16:45	KH 02.016	EMC3-Eirene simulation of neutral source effects on density build-up in the W7-X island divertor — •VICTORIA WINTERS, FELIX REIMOLD, YUHE FENG, VICTORIA HAAK, VALERIA PERSEO, GEORG SCHLISIO, THE W7-X TEAM
P 3.2	Mon	16:45–17:15	KH 02.016	Optimizing divertor heat loads on Wendelstein 7-X using multi-objective optimization — •ALEXANDER KNEIPS, MICHAEL ENDLER, JOACHIM GEIGER, JIANKUN HUA, YUNFENG LIANG, DIRK NAUJOKS, MATTHIAS OTTE, VINCENZO SANFRATELLO, YUTONG YANG
P 4.1	Mon	16:15–16:45	KH 01.020	Data-integrated simulations and machine learning analysis of plasma processing of SiO_x/Cu memristive devices — TOBIAS GERGS, ROUVEN LAMPRECHT, OLE GRONENBERG, SAHITYA YARRAGOLLA, HERMANN KOHLSTEDT, •JAN TRIESCHMANN
P 4.2	Mon	16:45–17:15	KH 01.020	A multi-ratio method for determination of the electric field from 2p states in transient argon discharges at atmospheric pressure — •ZDENEK BONAVENTURA, ZDENEK NAVRATIL, DETLEF LOFFHAGEN, MARKUS BECKER, TOMAS HODER
P 5.1	Tue	11:00–11:30	KH 02.016	Nanoparticles prepared by sputter-driven gas aggregation — •ANDREY SHUKUROV
P 6.1	Tue	11:00–11:30	KH 01.020	Controlled Exposure of High-Temperature Ceramics in the Scrape-Off Layer of WEST — •B. DE MARTINO, J. P. GUNN, B. GUILLERMIN, D. MAZON, A. CASNER, L. CIUPIŃSKI, G. KOMOROWSKA
P 7.1	Tue	16:15–16:45	KH 02.016	Post-puff SOL broadening on MAST-U: evidence for cross-field transport changes — •YACOPO DAMIZIA, SASKIA MORDJICK, NICK WALKDEN, JACK LOVELL, STEVEN THOMAS, EKIN OZTURK
P 8.1	Tue	16:15–16:45	KH 01.020	Near-plasma Chemical Surface Engineering — •PAULA NAVASCUÉS, DIRK HEGEMANN
P 9.1	Wed	11:00–11:30	KH 01.020	Controlling spokes in magnetron sputtering discharges — •MARTIN RUDOLPH
P 10.1	Wed	11:00–11:30	KH 02.016	Laser fusion activities in Germany - applications in planetary and stellar astrophysics and experiments at high-power laser facilities — •DOMINIK KRAUS
P 11.1	Wed	13:45–14:15	KH 02.016	Proxima Fusion - Building stellarators to power the future — •JONATHAN SCHILLING

P 11.2	Wed	14:15–14:45	KH 02.016	Equilibrium and stability in Wendelstein 7-X high beta plasmas — •HENNING THOMSEN, CHRISTIAN BRANDT, CHARLOTTE BÜSCHEL, EDITH V. HAUSTEN, MARTIN C. KELLY, KIAN RAHBARNIA, PEDRO PONS VILLALONGA, SARA VAZ MENDES, KSENIA ALEYNIKOVA, GOLO FUCHERT, NIKLAS S. POLEI
P 12.1	Wed	13:45–14:15	KH 01.020	Modelling and analysis of DBDs for thin-film deposition at atmospheric pressure — •MARJAN STANKOV, LARS BRÖCKER, CLAUS-PETER KLAGES, MARKUS M. BECKER, DETLEF LOFFHAGEN
P 13.1	Wed	16:15–16:45	KH 01.020	Thin film deposition with dielectric-barrier discharges at atmospheric pressure: open questions and some answers — •LARS BROECKER, CLAUS-PETER KLAGES
P 15.1	Thu	11:00–11:30	KH 01.020	Demonstration of X-ray Diagnostics for Heavy-Ion-Heated Matter — •JULIAN LÜTGERT
P 17.1	Thu	16:15–16:45	KH 02.016	Energetic proton damage for simulating fusion relevant neutron damage on reactor materials — •RAHUL RAYAPROLU
P 18.1	Thu	16:15–16:45	KH 01.020	High-energy-density and high-pressure states investigated with x-ray imaging at HED-HiBEF — •ALEJANDRO LASO GARCIA
P 21.1	Fri	9:00– 9:30	KH 01.013	Performance Pitfalls and Design Principles of Retarding Potential Analyzers — •THOMAS TROTTERBERG
P 21.2	Fri	9:30–10:00	KH 01.013	Microwave cavity resonance spectroscopy: a novel approach for spatially resolved electron density measurements — •JENS OBERRATH
P 22.1	Fri	9:00– 9:30	KH 01.012	ERO/ERO2.0 modelling for tokamaks, stellarators and linear plasma devices — •JURI ROMAZANOV, HENRI KUMPULAINEN, CHRISTOPH BAUMANN, SEBASTIAN RODE, ANDRIY TARASENKO, ANDREAS KIRSCHNER, GEORGH TIMKOVSKII, DMITRY MATVEEV, SEBASTIJAN BREZINSEK, JET TEAM, W7-X TEAM

Sessions

P 1.1–1.2	Mon	14:45–15:35	KH 02.016	Magnetic Confinement I
P 2.1–2.3	Mon	14:45–15:50	KH 01.020	Astrophysical Plasmas
P 3.1–3.5	Mon	16:15–18:20	KH 02.016	Magnetic Confinement II
P 4.1–4.5	Mon	16:15–18:00	KH 01.020	Codes and Modeling I
P 5.1–5.5	Tue	11:00–12:30	KH 02.016	Low Pressure Plasmas I
P 6.1–6.5	Tue	11:00–12:30	KH 01.020	Plasma Wall Interaction I
P 7.1–7.6	Tue	16:15–18:55	KH 02.016	Magnetic Confinement III
P 8.1–8.8	Tue	16:15–18:45	KH 01.020	Low Pressure Plasmas II
P 9.1–9.5	Wed	11:00–12:30	KH 01.020	Low Pressure Plasmas III
P 10.1–10.5	Wed	11:00–12:30	KH 02.016	High Energy Density Physics I
P 11.1–11.5	Wed	13:45–15:50	KH 02.016	Magnetic Confinement IV
P 12.1–12.7	Wed	13:45–15:45	KH 01.020	Atmospheric Pressure Plasmas I
P 13.1–13.7	Wed	16:15–18:15	KH 01.020	Atmospheric Pressure Plasmas II
P 14.1–14.4	Thu	11:00–12:30	KH 02.016	Magnetic Confinement V
P 15.1–15.5	Thu	11:00–12:30	KH 01.020	High Energy Density Physics II
P 16.1–16.117	Thu	13:45–15:45	Redoutensaal	Poster Session Plasma Physics
P 17.1–17.5	Thu	16:15–18:15	KH 02.016	Plasma Wall Interaction II
P 18.1–18.4	Thu	16:15–17:30	KH 01.020	High Energy Density Physics III
P 19.1–19.3	Thu	17:30–18:15	KH 01.020	Atmospheric Pressure Plasmas III
P 20	Thu	18:30–19:30	KS H C	Members' Assembly
P 21.1–21.4	Fri	9:00–10:30	KH 01.013	Codes and Modeling II
P 22.1–22.5	Fri	9:00–10:30	KH 01.012	Plasma Wall Interaction III
P 23.1–23.2	Fri	11:00–11:30	KH 01.012	Low Pressure Plasmas IV
P 24.1–24.4	Fri	11:00–12:00	KH 01.013	Laser Plasmas
P 25.1–25.2	Fri	11:30–12:00	KH 01.012	Plasma Wall Interaction IV

Members' Assembly of the Plasma Physics Division

Thursday 18:30–19:30 KS H C
snacks included

- Reports
- Elections
- Miscellaneous