

Plasma Physics Division Fachverband Plasmaphysik (P)

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Liebe Kolleginnen und Kollegen,

nach drei Jahren Pandemie ist es mir eine große Freude, Sie alle wieder zu einer DPG-Tagung in Präsenz zu begrüßen. Es ist das erste Mal, dass wir als Fachverband mit der gesamten Sektion SMuK tagen, von der wir so freundlich und offen aufgenommen wurden. Dank der Vorschläge aus dem Fachbeirat und der zahlreichen Beitragsanmeldungen ist wieder ein interessantes Programm entstanden. Ich hoffe, Sie können – trotz der schwierigen Zeiten in der Welt – den Austausch untereinander, aber auch das wunderschöne Dresden genießen.

Ich verabschiede mich mit dieser Tagung als Sprecher aus dem Fachbeirat und übergebe die Aufgabe an Prof. Jan Benedikt von der Universität Kiel. Ich möchte mich an dieser Stelle bei allen Mitgliedern des Fachbeirates für die stets vertrauensvolle und konstruktive Mitarbeit bedanken.

Dear colleagues,

after three years of pandemic, it is a great pleasure for me to welcome you all again to a DPG meeting in presence. It is the first time that we meet with the entire section SMuK, from which we were received so friendly and openly. Thanks to the suggestions from the advisory board and the numerous applications for contributions, an interesting program has again been created. I hope you can enjoy – despite the difficult times in the world – the scientific exchange and meetings but also the beautiful city of Dresden.

With this conference I retire as the speaker from the advisory board and hand over to Prof. Jan Benedikt from the University of Kiel. I would like to take this opportunity to thank all members of the advisory board for their ever trusting and constructive cooperation.

Ronny Brandenburg

Overview of Invited Talks and Sessions

(Lecture halls CHE/0089 and CHE/0091; Poster HSZ EG)

Invited Talks

P 1.1	Mon	11:00–11:30	CHE/0089	Ion Beam Sputter Deposition – Fundamentals and Applications — •CARSTEN BUNDESMANN
P 2.1	Mon	11:00–11:30	CHE/0091	Deuterium-Tritium Plasmas at JET with ITER-like Wall and the Role of Isotope Mass and Transport for H-mode Access — •GREGOR BIRKENMEIER, JET CONTRIBUTORS
P 5.1	Tue	11:00–11:30	CHE/0089	Diagnostics of metal-grid micro cavity plasma arrays — •MARC BÖKE, DAVID STEUER, SEBASTIAN DZIKOWSKI, HENRIK VAN IMPEL, VOLKER SCHULZ-VON DER GATHEN, JUDITH GOLDA
P 6.1	Tue	11:00–11:30	CHE/0091	The physics of ELM-free regimes — •MICHAEL DUNNE, MICHAEL FAITSCH, GEORG HARRER, LIDIJA RADOVANOVIC, WOLFGANG SUTTROP, ELEONORA VIEZZER, MATTHIAS WILLENSDORFER, ELISABETH WOLFRUM
P 8.1	Tue	17:00–17:30	CHE/0091	Fuel retention and removal in the JET tokamak — •DMITRY MATVEEV, DAVID DOUAI, TOM WAUTERS, SEBASTIJAN BREZINSEK, JET CONTRIBUTORS
P 9.1	Wed	11:00–11:30	CHE/0089	Modelling and analysis of single-filament dielectric barrier discharges at atmospheric pressure — •MARKUS M. BECKER, RONNY BRANDENBURG, TOMÁŠ HODER, HANS HÖFT, ALEKSANDAR P. JOVANOVIĆ, DETLEF LOFFHAGEN

P 10.1	Wed	11:00–11:30	CHE/0091	Diagnosing the plasma edge with helium beam spectroscopy — •MICHAEL GRIENER, THE ASDEX UPGRADE TEAM
P 13.1	Thu	11:00–11:30	CHE/0089	Acceleration of spin-polarized ion beams from laser-plasma interaction — •LARS REICHWEIN, MARKUS BÜSCHER, ALEXANDER PUKHOV
P 14.1	Thu	11:00–11:30	CHE/0091	Experimental validation of turbulence codes — •KLARA HÖFLER
P 15.1	Thu	14:00–14:30	CHE/0089	Tumor irradiation in mice with a laser-accelerated proton beam — •FLORIAN KROLL, FLORIAN-EMANUEL BRACK, ELKE BEYREUTHER, THOMAS COWAN, LEONHARD KARSCH, JOSEFINE METZKES-NG, JÖRG PAWELKE, MARVIN REIMOLD, ULRICH SCHRAMM, TIM ZIEGLER, KARL ZEIL
P 16.1	Thu	14:00–14:30	CHE/0091	Development of a Laser-based Diagnostic for in situ Monitoring of Fuel Retention in ITER and future fusion devices — •ALEXANDER HUBER, M. ZLOBINSKI, G. SERGIENKO, J. ASSMANN, D. CASTANO, S. FRIESE, I. IVASHOV, Y. KRASIKOV, H. LAMBERTZ, PH. MERTENS, K. MLYNCZAK, M. SCHRADER, A. TERRA, S. BREZINSEK, CH. LINSMEIER
P 19.1	Thu	17:30–18:00	CHE/0089	Numerical and experimental investigations of a linear microwave plasma source for metal foil pumps for DEMO — •STEFAN MERLI, ANDREAS SCHULZ, MATTHIAS WALKER, YANNICK KATHAGE, STEFAN HANKE, CHRISTIAN DAY, GÜNTER TOVAR
P 20.1	Thu	17:30–18:00	CHE/0091	Laser-Induced Breakdown Spectroscopy (LIBS) for the detection of hydrogen isotopes stored in high-Z metals tungsten and tantalum — •STEFFEN MITTELMANN, KÉVIN TOUCHET, XIANGLEI MAO, MINOK PARK, VASSILIA ZORBA, SEBASTIJAN BREZINSEK, GEORG PRETZLER

Sessions

P 1.1–1.6	Mon	11:00–12:45	CHE/0089	Low Pressure Plasmas and their Application I
P 2.1–2.5	Mon	11:00–13:10	CHE/0091	Magnetic Confinement I/HEPP I
P 3.1–3.5	Mon	16:30–17:45	CHE/0089	Astrophysical Plasmas
P 4.1–4.5	Mon	16:30–18:35	CHE/0091	HEPP II
P 5.1–5.7	Tue	11:00–13:00	CHE/0089	Atmospheric Pressure Plasmas and their Applications I
P 6.1–6.5	Tue	11:00–12:50	CHE/0091	Magnetic Confinement II/HEPP III
P 7.1–7.8	Tue	17:00–19:00	CHE/0089	Atmospheric Pressure Plasmas and their Applications III
P 8.1–8.7	Tue	17:00–19:10	CHE/0091	Plasma Wall Interaction I/HEPP IV
P 9.1–9.7	Wed	11:00–13:00	CHE/0089	Atmospheric Pressure Plasmas and their Applications III
P 10.1–10.5	Wed	11:00–13:10	CHE/0091	Magnetic Confinement III/HEPP V
P 11.1–11.48	Wed	14:00–15:30	HSZ EG	Poster I
P 12.1–12.45	Wed	17:30–19:00	HSZ EG	Poster II
P 13.1–13.7	Thu	11:00–13:00	CHE/0089	Laser Plasmas I
P 14.1–14.5	Thu	11:00–13:10	CHE/0091	Magnetic Confinement IV/HEPP VI
P 15.1–15.5	Thu	14:00–15:30	CHE/0089	Laser Plasmas II/Low Pressure Plasmas and their Applications II
P 16.1–16.5	Thu	14:00–15:30	CHE/0091	Plasma Wall Interaction II/Codes and Modeling I
P 17.1–17.6	Thu	15:45–17:15	CHE/0089	Complex Plasmas and Dusty Plasmas/Codes and Modeling II
P 18.1–18.3	Thu	15:45–17:00	CHE/0091	HEPP VII
P 19.1–19.3	Thu	17:30–18:40	CHE/0089	Magnetic Confinement V/HEPP VIII
P 20.1–20.4	Thu	17:30–18:45	CHE/0091	Laser Plasmas III/Codes and Modeling III
P 21	Thu	19:00–20:00	CHE/0089	Members' Assembly

Members' Assembly of the Plasma Physics Division (Mitgliederversammlung P)

Donnerstag, 23.03.23 19:00–20:00 Raum CHE/0089

- Bericht
- Wahl neuer Fachbeiratsmitglieder
- Tagung 2024, Verschiedenes