

## Fachverband Plasmaphysik (P)

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### Übersicht der Hauptvorträge und Fachsitzungen

(H20 und H21; Poster Foyer Nordbau)

#### Hauptvorträge

P 2.1	Mo	11:15–11:45	HS 20	<b>Diagnostics of nanodusty plasmas</b> — ●FRANKO GREINER, THE SFB-TR24 TEAM
P 3.1	Mo	11:15–11:45	HS 21	<b>Plasma-based surface modification for life-science applications</b> — ●KATJA FRICKE, KLAUS-DIETER WELTMANN
P 4.1	Mo	14:00–14:30	HS 20	<b>Characterisation of Dielectric Barrier Discharges for analytical applications</b> — ●JOACHIM FRANZKE, ALEXANDER SCHÜTZ, SEBASTIAN BRANDT, DAVID KLUTE, SEBASTIAN BURHENN, PASCAL VOGEL
P 5.1	Mo	14:00–14:30	HS 21	<b>On plasma-surface model coupling realized through machine learning</b> — ●JAN TRIESCHMANN, FLORIAN KRÜGER, TOBIAS GERGS, THOMAS MUSSENBRÖCK
P 6.1	Mo	16:30–17:00	HS 20	<b>Plasmas in leading-edge semiconductor device fabrication: Importance and analysis</b> — ●SVEN ZIMMERMANN, MICHA HAASE, NORBERT LANG, HENRIK ZIMMERMANN, JÜRGEN RÖPCKE, STEFAN SCHULZ, THOMAS OTTO
P 7.1	Mo	16:30–17:00	HS 21	<b>3-D physics of the tokamak edge</b> — ●MATTHIAS WILLENSDORFER, TYLER COOTE, MICHAEL GRIENER, DAVID RYAN, ERIKA STRUMBERGER, WOLFGANG SUTROP, NENGCHAO WANG, DOMINIK BRIDA, MARCO CAVEDON, SEVERIN DENK, MIKE DUNNE, RAINER FISCHER, CHRISTOPHER HAM, CHRIS HEGNA, MATTHIAS HOELZL, ANDREW KIRK, NILS LEUTHOLD, MARC MARASCHEK, HARTMUT ZOHN, THE ASDEX UPGRADE TEAM
P 9.1	Di	11:00–11:30	HS 21	<b>Laser diagnostics of plasmas using fs- and ps-lasers</b> — ●STEPHAN REUTER
P 10.1	Di	14:00–14:30	HS 20	<b>HiBEF: New vistas into high-field and laser-plasma science</b> — ●TOMA TONCIAN
P 11.1	Di	14:00–14:30	HS 21	<b>Electrical and optical characterisation of pulsed, single-filament dielectric barrier discharges on a water surface</b> — ●HANS HÖFT, MANFRED KETTLITZ, RONNY BRANDENBURG
P 12.1	Di	16:30–17:00	HS 20	<b>Hydrogen permeation and retention in ITER steel</b> — ●ANNE HOUBEN, JANA SCHEUER, ARKADI KRETER, MARCIN RASIŃSKI, BERNHARD UNTERBERG, CHRISTIAN LINSMEIER
P 14.1	Mi	11:00–11:30	HS 20	<b>Plasmas and the tailoring of nanomaterials</b> — ●UROS CVELBAR
P 15.1	Mi	11:00–11:30	HS 21	<b>Turbulence in the Wendelstein 7-X Stellarator</b> — ●ADRIAN VON STECHOW
P 15.2	Mi	11:30–12:00	HS 21	<b>Reduction of microwave beam quality due to plasma density fluctuations</b> — ●ALF KÖHN, PAVEL ALEYNIKOV, LORENZO GUIDI, EBERHARD HOLZHAUER, OMAR MAJ, EMANUELE POLI, MICHAEL BROOKMAN, ANTTI SNICKER, THOMAS MATTHEW, RODDY VANN, HANNES WEBER
P 17.1	Do	14:00–14:30	HS 21	<b>Impurity Transport Investigations at the Wendelstein 7-X Stellarator</b> — ●RAINER BURHENN, W7-X TEAM

P 17.2 Do 14:30–15:00 HS 21 **The role of the radial electric field in the edge of fusion plasmas** — ●MARCO CAVEDON, GREGOR BIRKENMEIER, RALPH DUX, TIM HAPPEL, ULRIKE PLANK, THOMAS PÜTTERICH, FRANCOIS RYTER, ULRICH STROTH, ELEONORA VIEZZER, MATTHIAS WILLENSDORFER, ELISABETH WOLFRUM, THE ASDEX UPGRADE TEAM

### Hauptvorträge des fachübergreifenden Symposiums SYPA

Das vollständige Programm dieses Symposiums ist unter SYPA aufgeführt.

SYPA 1.1 Mi 14:00–14:30 Plenarsaal **Laser-driven ion acceleration in plasmas** — ●JÖRG SCHREIBER  
 SYPA 1.2 Mi 14:30–15:00 Plenarsaal **Laser-driven electron acceleration in plasmas** — ●JEROEN VAN TILBORG  
 SYPA 1.3 Mi 15:00–15:30 Plenarsaal **Beam-driven electron acceleration in plasmas** — ●RICHARD D'ARCY  
 SYPA 1.4 Mi 15:30–16:00 Plenarsaal **Solar energetic electron events: Trying to understand the role of the shock** — ●NINA DRESING, MAX BRUEDERN, RAÚL GÓMEZ-HERRERO, BERND HEBER, ANDREAS KLASSEN, MANUELA TEMMER, SOLVEIG THEESEN, ASTRID VERONIG  
 SYPA 2.1 Mi 16:30–17:00 Plenarsaal **Plasma Wakefield Acceleration: Instabilities and Stabilization** — ●ALEXANDER PUKHOV  
 SYPA 2.2 Mi 17:00–17:30 Plenarsaal **LUX - A Laser-Plasma Driven Undulator Beamline** — ●ANDREAS R. MAIER  
 SYPA 2.3 Mi 17:30–18:00 Plenarsaal **Magnetic reconnection as a particle accelerator** — ●MICHAEL HESSE  
 SYPA 2.4 Mi 18:00–18:30 Plenarsaal **Experimental demonstration of proton bunch self-modulation and of electron acceleration in a 10m-long plasma** — ●PATRIC MUGGLI

### Hauptvorträge des fachübergreifenden Symposiums SYPP

Das vollständige Programm dieses Symposiums ist unter SYPP aufgeführt.

SYPP 1.2 Do 11:15–11:45 HS 3 **30 years of Pulsed Power in medical Excimer laser** — ●CLAUS STROWITZKI  
 SYPP 1.3 Do 11:45–12:15 HS 3 **Frontiers of Electroporation, from Mechanisms to Applications: Unraveling new key molecular level aspects using computational chemistry** — ●MOUNIR TAREK  
 SYPP 1.4 Do 12:15–12:45 HS 3 **Calcium electroporation - a novel, low-cost anti-cancer treatment** — ●STINE KROG FRANDSEN, JULIE GEHL  
 SYPP 2.1 Do 14:00–14:30 HS 3 **Pulsed Electric Fields for the Manipulation of Cancer Cells** — ANNA STEUER, FUKUN SHI, CHRISTINA M. WOLFF, ●JUERGEN F. KOLB  
 SYPP 2.2 Do 14:30–15:00 HS 3 **Pulsed electric field use in food industry - process and equipment design** — ROBIN OSTERMEIER, JULIAN WITT, ●STEFAN TÖPFL  
 SYPP 2.3 Do 15:00–15:30 HS 3 **Pulse Generators for a Scale-Up of an Electroporation Device for Mash** — ●MARTIN SACK, MARTIN KERN, HERMANN ARMBRUSTER, JOHANNES FLEIG, DENNIS HERZOG, MARTIN HOCHBERG, GEORG MUELLER  
 SYPP 2.4 Do 15:30–16:00 HS 3 **Spark discharges as tool for the extraction of microalgal compounds** — ●KATJA ZOCHER, RAPHAEL RATAJ, ANNA STEUER, JUERGEN F KOLB

### Fachsitzungen

P 1.1–1.2 So 16:00–18:00 HS 3 **Tutorial Plasma Physics (joint session AKjDPG/P)**  
 P 2.1–2.5 Mo 11:15–12:45 HS 20 **Complex and Dusty Plasmas I**  
 P 3.1–3.5 Mo 11:15–12:45 HS 21 **Plasma Surface Interaction I**  
 P 4.1–4.6 Mo 14:00–15:45 HS 20 **Atmospheric Pressure Plasmas I**  
 P 5.1–5.5 Mo 14:00–16:10 HS 21 **Helmholtz Graduate School I**  
 P 6.1–6.7 Mo 16:30–18:30 HS 20 **Low Pressure Plasmas I**  
 P 7.1–7.5 Mo 16:30–18:30 HS 21 **Helmholtz Graduate School II - Magnetic Confinement I**  
 P 8.1–8.6 Di 11:00–12:30 HS 20 **Laser Plasmas I - Codes and Modelling I**  
 P 9.1–9.5 Di 11:00–12:40 HS 21 **Atmospheric Pressure Plasmas II - Helmholtz Graduate School III**  
 P 10.1–10.5 Di 14:00–15:30 HS 20 **Laser Plasmas II**  
 P 11.1–11.5 Di 14:00–15:30 HS 21 **Atmospheric Pressure Plasmas III**

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P 12.1–12.6	Di	16:30–18:35	HS 20	<b>Plasma Surface Interaction II - Helmholtz Graduate School IV</b>
P 13	Di	18:45–20:00	HS 20	<b>Mitgliederversammlung / General meeting of members</b>
P 14.1–14.5	Mi	11:00–12:40	HS 20	<b>Complex and Dusty Plasmas II</b>
P 15.1–15.5	Mi	11:00–13:05	HS 21	<b>Helmholtz Graduate School V - Magnetic Confinement II</b>
P 16.1–16.5	Do	11:00–12:25	HS 21	<b>Low Pressure Plasmas II</b>
P 17.1–17.5	Do	14:00–16:15	HS 21	<b>Helmholtz Graduate School VI</b>
P 18.1–18.127	Do	16:30–18:30	Foyer Nordbau	<b>Postersitzung</b>

### **Mitgliederversammlung Fachverband Plasmaphysik**

Dienstag 18:45–20:00 HS 20