ECPD 2025

6th European Conference on Plasma Diagnostics

7-10 April 2025, Prague

PROGRAM

IPP INSTITUTE OF PLASMA PHYSICS OF THE CZECH ACADEMY OF SCIENCES

SYDOR TECHNOLOGIES

PHOTEK ENVISAGE THE FUTURE

HIDEN ANALYTICAL

BNC Berkeley Nucleonics Corp

ASSOCIATION LASERS ET PLASMAS

Sunday 6 April

17:00 — **Registration and welcome reception** — 19:00

Monday 7 April

8:00	**Registration opened (whole day)**
8:30	**Opening presentation**
8:50	**Introduction by chair of the ISC**
9:00	PLENARY (45 min)
9:45	INVITED (30 min)
10:15	ORAL (20 min)
10:35	Coffee break
11:10	INVITED (30 min)
11:40	ORAL (20 min)
12:00	ORAL (20 min)
12:20	ORAL (20 min)
12:40	Lunch
14:00	INVITED (30 min)
14:30	INVITED (30 min)
15:00	ORAL (20 min)
15:20	Poster
	Coffee break
17:00	
17:00	INVITED (30 min)
17:30	ORAL (20 min)
17:50	ORAL (20 min)
18:10	ORAL (20 min)
18:30	

Tuesday 8 April

8:50	**GENERAL INFORMATION**
9:00	PLENARY (45 min)
9:45	INVITED (30 min)
10:15	ORAL (20 min)
10:35	Coffee break
11:10	INVITED (30 min)
11:40	ORAL (20 min)
12:00	ORAL (20 min)
12:20	ORAL (20 min)
12:40	Lunch
14:00	INVITED (30 min)
14:30	INVITED (30 min)
15:00	ORAL (20 min)
15:20	Poster
	Coffee break
17:00	
17:00	INVITED (30 min)
17:30	ORAL (20 min)
17:50	ORAL (20 min)
18:10	ORAL (20 min)
18:30	BREAK
19:30	**CONFERENCE DINNER**
23:30	

Plenary talks: 45 min including discussion
Invited talks: 30 min including discussion
Oral talks: 20 min including discussion

Wednesday 9 April

8:50 – 9:00	**GENERAL INFORMATION**
9:00 – 9:45	PLENARY (45 min)
9:45 – 10:15	INVITED (30 min)
10:15 – 10:35	ORAL (20 min)
10:35 – 11:10	Coffee break
11:10 – 11:40	INVITED (30 min)
11:40 – 12:00	ORAL (20 min)
12:00 – 12:20	ORAL (20 min)
12:20 – 12:40	ORAL (20 min)
12:40 – 14:00	Lunch
14:00 – 14:30	INVITED (30 min)
14:30 – 15:00	INVITED (30 min)
15:00 – 15:20	ORAL (20 min)
15:20 – 17:00	Poster Coffee break
17:00 – 17:20	ORAL (20 min)
17:20 – 17:40	ORAL (20 min)
17:40 – 18:00	ORAL (20 min)
18:00 – 18:30	**GROUP PICTURE**
18:30 – 19:30	**COMMITTEE REUNION**

Thursday 10 April

8:50 – 9:00	**GENERAL INFORMATION**
9:00 – 9:45	PLENARY (45 min)
9:45 – 10:15	INVITED (30 min)
10:15 – 10:35	ORAL (20 min)
10:35 – 11:10	Coffee break
11:10 – 11:40	INVITED (30 min)
11:40 – 12:10	Award (30 min)
12:10 – 12:30	ORAL (20 min)
12:30 – 12:50	ORAL (20 min)
12:50 – 13:10	ORAL (20 min)
13:10 – 13:30	**CONFERENCE CLOSURE**
13:30 – 15:00	Lunch
16:00 – 18:00	**Visits of Institute of Plasma Physics of the Czech Republic**

Plenary talks: 45 min including discussion
Invited talks: 30 min including discussion
Oral talks: 20 min including discussion

SUNDAY 6 APRIL

17:00 – 19:00 WELCOME RECEPTION AND REGISTRATION

Registration will be possible every day at the conference desk.

MONDAY 7 APRIL

08:00 REGISTRATION OPENING AT THE CONFERENCE DESK

08:30 OFFICIAL OPENING PRESENTATION

Session 1

Chairpersons: D. Mazon, T. Akiyama

09:00 P1 – C. Sozzi - Diagnostics for large tokamaks: from JET to JT-60SA

09:45 I1 – M. Kocan − Progress on ITER diagnostics

10:15 O1 - P. Bilkova - Diagnostics for COMPASS Upgrade tokamak

10:35 – 11:10 COFFEE BREAK

Session 2

Chairpersons: M. Feroci, G. Cristoforetti

11:10 I2 – L Hayes - The Flaring Sun: X-ray Diagnostics of Solar Flares with Solar Orbiter

11:40 O2 – A. Goussarov - Long term operation of the Fibre Optics Current Sensor at JET

12:00 O3 – J. Feng - Optical emission spectroscopy diagnostics of novel DCSBD linear jet plasma system

12:20 O4 –B. Tosto - Fast evaluation of the Fast-Ion Dα spectroscopy measurements at the ASDEX Upgrade tokamak

12:40 – 14:00 LUNCH IN DUO HOTEL

Included in the conference fee

Session 3

Chairpersons: G. Cristoforetti, J. Cavalier

14:00 I3 – H. Akatsuka - Optical Emission Spectroscopic Measurement of Atmospheric-Pressure Plasma by Continuum and Line Emissions with Collisional Radiative Model

14:30 I4 – M. Geissel - Using High-Performance Cameras for Advanced Plasma Diagnostics

15:00 O5 - R. Agnello - Insights from Beam Emission Spectroscopy in SPIDER in multi-beamlet configuration

15:20 – 17:00 POSTER SESSION 1

Session 4

Chairpersons: K. Sasaki, S. Starikovskaia

17:00 I5 – E. Wagenaars - Measuring atomic radicals in atmospheric-pressure plasmas

17:30 O6 – Y. Cheng - First observation of line emissions from W46+ ions at 7-8 Å by Extreme Ultraviolet Spectrometers in Experimental Advanced Superconducting Tokamak with full tungsten diverto

17:50 O7 – J. Fujera - Advanced analysis of overlapping molecular spectra to determine vibrational distributions of excited electronic states of N2, N2+ and NO

18:10 O8 – L. Lobanova - Plasma-chemical mechanism of surface destruction of the diagnostic system components inside EAST vacuum vessel

TUESDAY 8 APRIL

08:50 GENERAL INFORMATION OF THE DAY

Session 5

Chairpersons: M. Tatarakis , M. Simek

09:00 P2 – A. Gerakis - Non-resonant four wave mixing techniques for the thermodynamic characterization of neutrals, ions, electrons and nanoparticles in a gas discharge

09:45 I6 – V. Malka - ELI NP status and challenges

10:15 O9 – I. Tazes - Experimental observation of Magnetic Vortex Accelerated ions by femtosecond laser interaction with optically shaped gaseous targets in the near critical density plasma regime

10:35 – 11:10 COFFEE BREAK

Session 6

Chairpersons: L. Hu, D. Mazon

11:10 I7 – A. Jalalvand - Leveraging AI for Resilient Fusion Plasma monitoring and Control: Mitigating Failures and Enhancing Diagnostic

11:40 O10 - H. Wu - Bayesian integrated estimation of tungsten impurity concentration distributions at WEST using soft X-ray and bolometer diagnostics

12:00 O11 – M. Carrard - Real-time reflectometry for control experiment in tokamak plasma

12:20 O12 – F. Wang - High spatiotemporal resolution two-dimensional shock wave diagnosis technology based on compressive sensing and neural network technology

12:40 – 14:00 LUNCH IN DUO HOTEL

Included in the conference fee

Session 7

Chairpersons: M. Dimitrova, K. Sasaki

14:00 I8 – J. Adamek - Advances in Plasma Diagnostics: 20 Years of the Ball-Pen Probe in Fusion and Non-Fusion Research

14:30 I9 – H. Hoeft - Synchronised fast optical and electrical diagnostics for pulsed-driven atmospheric pressure discharges

15:00 O13 – M. Zuin - A small-scale experiment for Langmuir wave study in a laboratory plasma, a model for solar wind

15:20 – 17:00 POSTER SESSION 2

Session 8

Chairpersons: F. Wang, P. Bilkova

17:00 I10 – C. Zhou - Multi-scale turbulence measurement by integrated backscattering, forward scattering and cross-polarization scattering of Doppler reflectometer

17:30 O14 – G. Fuchert - In-situ spectral calibration from plasma measurements of the W7-X Thomson scattering diagnostic

17:50 O15 – X. Zhao - Angular-resolved scattered light diagnostics for laser-plasma instability studies in inertial confinement fusion

18:10 O16 – D. Elliott - Design and commissioning of the optical diagnostic suite for the Material Plasma Exposure eXperiment: optimization for steady-state operations and high heat flux

19:30 CONFERENCE DINNER – RESTAURACE HYBERNSKA

Address: Dlážděná 1003/7, 110 00 Prague 1

WEDNESDAY 9 APRIL

08:50 GENERAL INFORMATION OF THE DAY

Session 9

Chairpersons: L. Hayes and M. Feroci

09:00 P3 – K. Ida - Development of hyperspectral camera for auroral imaging (HySCAI)

09:45 I11 – D. Kraus - X-ray diagnostics of dense plasmas relevant to stellar interiors and inertial fusion energy

10:15 O17 – A. Laso Garcia - Solid Density Plasmas Diagnotics at the HED-HiBEF Instrument at EuXFEL

10:35 – 11:10 COFFEE BREAK

Session 10

Chairpersons: M. Zuin, L. Hu

11:10 I12 –A. Dal Molin - Measurement of the Gamma-Ray-to-Neutron Branching Ratio for the Deuterium-Tritium Reaction in Magnetic Confinement Fusion Plasma

11:40 O18 – L. Liao - A scintillating-fiber detector for the deuterium-deuterium fusion-born triton confinement study in EAST tokamak

12:00 O19 – R. Yamada - Thermal neutron imaging for laser-driven neutron sources

12:20 O20 – Y. Arikawa - Pico second time resolution neutron detector for burning plasma measurement on inertial confinement fusion

12:40 – 14:00 LUNCH IN DUO HOTEL

Included in the conference fee

Session 11

Chairpersons: M. Simek, G. Dilecce

14:00 I13 – S. Starikovskaia - “Gradient” discharge for plasma-assisted detonation: controlled production of gradient of radicals

14:30 I14 – E. Hume - Characterization of electrons in intense laser-plasma interactions, both utilizing solid and gas targets

15:00 O21 - S. Irimiciuc - Selective acceleration and gas phase chemistry during expansion of laser-produced oxide and nitride plasma via angle- and time-resolved electrical diagnostics

15:20 – 17:00 POSTER SESSION 3

Session 12

Chairpersons: M. Zuin, T. Markovic

17:00 O22 - P. Turjanica - Innovative Magnetic Field Sensors for Fusion Reactors: Harnessing the Thick Printed Copper Technology

17:20 O23 - Y. Liu - The influence of magnetic field and plasma on the diagnosis of wall material by LIAS in HIT-PSI device

17:40 O24 - L. Gottardi - Diagnostic of magnetically confined plasmas with superconducting transition edge sensors

18:00 GROUP PICTURE

18:30 SCIENTIFIC COMMITTEE REUNION

Closed session reserved to members of the international scientific committee.

THURSDAY 10 APRIL

08:50 GENERAL INFORMATION OF THE DAY

Session 13

Chairpersons: E. Hume, D. Batani

09:00 P4 – M. Gatu Johnson – Development of an inertial confinement fusion platform to study nuclear reactions relevant to nuclear astrophysics

09:45 I15 – D. Verscharen - In-situ measurements of space plasma: recent progress and future challenges

10:15 O25 – J. Xiao - First Experimental Results of Multi-physics Parameter Diagnosis in a MA-class Dense Plasma Focus

10:35 – 11:10 COFFEE BREAK

Session 14

Chairpersons: T. Akiyama, F. Wang

11:10 I16 – I. Abramovic - Advancing Synthetic Diagnostics for Plasma Control and Pulse Planning in SPARC

11:40 Prize award – Y. Wan - Exploring the key subtleties: a powerful tool for probing laser-plasma wakefield dynamics

12:10 O26 – K. Munechika - Synthetic framework for ITER bolometer performance assessment

12:30 O27 – F. Federici - Improved performance of IRVB foils to image low- to moderate-temperature plasma radiation

12:50 O28 – J. Zhao – Development of the 18MJ pulsed power system of SPERF

13:10 CONFERENCE CLOSURE AND STUDENT PRIZE AWARD

13:30 – 15:00 LATE LUNCH IN DUO HOTEL***

Included in the conference fee

*** Lunch boxes available for those leaving early. Register at the welcome desk in advance.

16:00 – 18:00 VISIT OF IPP (COMPASS Upgrade tokamak and PALS laboratoriy)

Registration at the conference desk.

Address: U Slovanky 1746/1, 182 00 Prague 8

Poster session 1

Monday 7 April, 15:20 – 17:00

P1.1: Vladimír Weinzettl, *Design of the soft X-ray spectrometer for observing high-Z elements at the full-metal COMPASS Upgrade tokamak*

P1.2: Miglena Dimitrova, *Embedded-probe diagnostics for the COMPASS-U tokamak*

P1.3: João Figueiredo, *EUROfusion Diagnostic Enhancements and R&D in support of ITER research plan priorities*

P1.4: Maxime Brasseur, *Atomic data for Os VI spectral lines of interest to nuclear fusion research from independent computational approaches*

P1.5: Gabriele Partesotti, *Measurements of divertor radiated power from the W7-X imaging bolometer diagnostic*

P1.6: Igor Nedzelskiy, *RFA DC operation in configuration without impact of secondary electron emission on the ion temperature fluctuations measurements*

P1.7: Tomas Markovic, *Magnetic diagnostic sensors for hot wall tokamak COMPASS Upgrade*

P1.8: Sushil Kumar Singh, *Experimental observation of quasi-mono energetic electrons at the sub-relativistic laser intensities*

P1.9: Aleš Havránek, *Progress in development of ultra-fast soft X-ray sensorics for spectral monitoring of high-temperature plasmas*

P1.10: Mahdi Mahjour, *Design and Fabricate a Novel Mix-Probe Diagnostic System for Multi-Parameter Plasma Edge Turbulence Measurements in the Ir-T1 Tokamak*

P1.11: Petr Bílek, *Molecular Hydrogen Continuum under Nanosecond Pulse Discharge Conditions*

P1.12: Frank Rosmej, *Analysis of velocity gradients inside dense heated titanium foils via space resolved H-like Lyman-alpha X-ray line formation*

P1.13: Weixing Ding, *Development of Cotton-Mouton Effect Interferometer on EAST*

P1.14: Sara Molisani, *Design of a diagnostic system to evaluate the ion velocity distribution function at the plasma edge of RFX-mod2*

P1.15: Pascal Devynck, *IRBO, a new X/UV bolometer based on IR detection*

P1.16: Tullio Barbui, *Novel soft x-ray multi-energy camera to study thermal plasmas at WEST*

P1.17: Slavomir Entler, *Electronics for ITER steady-state magnetic field sensors*

P1.18: Marie Vanakova, *Accuracy of the plasma equilibrium reconstruction of COMPASS Upgrade*

P1.19: Federico Guiotto, *Development of a GEM based diagnostic for soft X-ray measurements resolved in space, time, and energy at RFX-mod2*

P1.20: Giulia Marcer, *Performance assessment of a multiple lines of sight gamma ray spectrometer for deuterium-tritium fusion power measurement at ITER*

P1.21: João Oliveira, *A real-time data acquisition system for the magnetic diagnostic of COMPASS-U*

P1.22: Duccio Testa, *Conceptual design and prototyping of inductive magnetic sensors using photo-lithography processes: the JET DTE3 experience*

P1.23: Liutian Gao, *Observation of E×B flow and fluctuations associated with fishbone instability on EAST*

P1.24: Simone Lorenzo Fugazza, *Validation of TRANSP simulations of the fast deuterium beam distribution in D3He plasmas from (D)-(DNBI)-(3He) three-ions scheme experiments at JET*

P1.25: Federico Ruffini, *G3C: a plasma position reconstruction algorithm based on reflectometric measurements*

P1.26: Xiang Han, *Measurement of charge exchange emission at plasma edge using a novel detector assembly on Wendelstein 7-X*

P1.27: Enrico Panontin, *Gamma-ray emission on SPARC for burning plasma diagnosis*

P1.28: Dario Cipciar, *First results on fast measurements of ion and electron temperatures with Ball-pen probes in the SOL of Wendelstein 7-X*

P1.29: Sebastian Hoermann, *Fast helium beam diagnostic to characterise plasma dynamics at W7-X*

P1.30: Michael Goddijn, *Femtosecond Two-photon-Absorption Laser-Induced Fluorescence diagnostic on the RAID linear device*

P1.31: Petr Hoffer, *Electric field-induced second harmonic generation at 532 nm in various media*

P1.32: Pooja Devi, *Filter Stack Spectrometer for Laser-Plasma Interaction Studies*

P1.33: Lifeng Yang, *Real-time Data Cleaning of EAST Tokamak Density Diagnostic Data Based on Machine Learning*

P1.34: Nicola Lonigro, *Localizing CIII emission using multi-delay coherence imaging in the W7-X divertor*

P1.35: Marco Zanini, *Motional Stark Effect modelling and measurements at Wendelstein 7-X*

P1.36: Tsuyoshi Akiyama, *Impact of Environmental Factors on ITER Toroidal Interferometer and Polarimeter (TIP) Measurements*

P1.37: Koichi Sasaki, *Doppler-broadened laser absorption spectroscopy at hydrogen Balmer-alpha line for estimating sheath electric field in plasmas*

P1.38: James Milnes, *Saturation mitigation strategies in microchannel plate photomultiplier tubes*

P1.39: Jakub Seidl, *Improved Accuracy of Thomson Scattering System at COMPASS via Bayesian Error Correction and Machine Learning*

P1.40: Kentaro Sakai, *Design of Thomson scattering spectrometer to measure non-Maxwellian electron distribution functions in the Compact Helical Device*

P1.41: Vincent Masson, *Developments in phase-contrast imaging on TCV for electron-scale fluctuation measurements*

P1.42: Wenxiang Shi, *2D Full Wave Simulation of Scattering Process for Doppler Reflectometer*

P1.43: Pengjun Sun, *Development of 270 GHz Microwave Forward Scattering System on the Experimental Advanced Superconducting Tokamak (EAST)*

P1.44: Henry Gould, *Electron Temperature Measurements with Multi-color SXR Ratio Diagnostics on LM26 Plasma Compressions*

***P1.45:** Sahar Arjmand, Diagnostics of Low-Temperature Plasma in Dielectric Capillaries for Laser Wakefield Acceleration*

Poster session 2

Tuesday 8 April, 15:20 – 17:00

P2.1: Ichihiro YAMADA, *Initial results of new 9-channel and 12-channel polychromators of the LHD Thomson scattering system*

P2.2: Alexandru Boboc, *Diagnostics approach for Spherical Tokamak for Energy Production (STEP) power plant*

P2.3: Chi Lei, *Advancement of gas puffing imaging diagnostic on J-TEXT tokamak*

P2.4: Peng Shi, *Conceptual design of collective Thomson scattering system for a burning plasma tokamak*

P2.5: Corinne Desgranges, *WEST VUV spectrometers : results and enhancement project*

P2.6: Michael Komm, *Assessment on the swept Langmuir probes capability to measure low electron temperatures in fusion plasmas*

P2.7: Georg Schlisio, *Application of novel mass spectrometry techniques for exhaust monitoring in the Wendelstein 7-X divertor by means of a high resolution spectrometer and an enhanced optical gas analyzer*

P2.8: Jakub Svoboda, *Modelling two foil method for COMPASS-U tokamak and its generalisation for tungsten density estimation*

P2.9: Tomu Hisakado, *Development of a wide bandwidth heterodyne dispersion interferometer for electron density measurement of atmospheric pressure plasmas*

P2.10: Zhoujun Yang, *Development of Enhanced Scattering diagnostic on J-TEXT*

P2.11: Haoxi Wang, *Results of the HL-3 three-wave FIR Polari-Interferometer on plasma density and magnetic field distribution*

P2.12: Yuyang Liu, *Design and bench testing of a two-color interferometer system on the EAST tokamak*

P2.13: Vlastimil Dědek, *Energy Spectra Shifts of Escaping Neutrals Caused by the Plasma Rotation*

P2.14: Filipe da Silva, *Advancing Fusion Research: SPEKTRE Platform and VOPOO Diagnostic for Plasma Edge Analysis and Turbulence Control*

P2.15: Petr Bohm, *New polychromators for COMPASS-U Thomson Scattering diagnostic system - optimization of the filter set*

P2.16: Matěj Ivánek, *Instrumented high fluence neutron irradiation test of antimony Hall sensors – experimental setup and the first results*

P2.17: Guoliang Yuan, *Development of diamond neutron energy spectrum diagnostics on HL-3 tokamak*

P2.18: Howel Larreur, *Differentiation of alpha particles from carbon ions using various types of solid-state nuclear track detectors*

P2.19: Christos Karvounis, *Measurement of the magnetic field in a miniature plasma focus machine*

P2.20: Agnieszka Bukowicka, *New vacuum test stand for neutral gas pressure gauges testing in the constant magnetic field of 1.4 T*

P2.21: Rafael Marques Gomez, *Overview of the activities on the ITER fast-ion loss detector*

P2.22: Pierre Forestier-colleoni, *Temporal and Spatial Evolution of the Ion Temperature in the WEST tokamak*

P2.23: Luis F. Delgado-Aparicio, *Radiated power density estimates from photon-counting measurements*

P2.24: Craig Maclean, *Absolute neutron emission estimate on MAST Upgrade based on activation foil measurements*

P2.25: Jorge Santos, *FDTD-Based Methodologies in Advanced Microwave Diagnostic System Design*

P2.26: Natalja Zorina, *Training of Artificial Neural Network for HFEDL Spectral Diagnostics*

~~**P2.27:** Hang Zhao, *Collision correction on collective Thomson scattering spectra and its application in inertial confinement fusion hohlraum plasmas*~~

P2.28: Benoist Grau, *Modulations of Thomson Spectrometer parabolas for detecting electromagnetic pulses generated in kilojoule laser-matter interaction experiments*

P2.29: Jan Cech, *Investigation of time-resolved OES for trace element analysis: ICCD study on volume DBD / APGD plasma sources*

P2.30: Alex Reyner Viñolas, *Optimized collimator design and synthetic signals for the ITER Fast Ion Loss Detector*

P2.31: Jakob Brunner, *Neural-network based phase extraction from modulated dispersion interferometers*

P2.32: Courtney Johnson, *Implementation of Pfirsch-Schlüter Parallel Flow Effects in X-ray Imaging Crystal Spectrometer Tomographic Inversion Analysis*

P2.33: Marina Jimenez-Comez, *Tomographic reconstructions of the MAST-U Fast-Ion Loss Detector using iterative algorithms*

P2.34: Luis Daniel Lopez Rodriguez, *Characterization of a microwave reflectometer for edge density profile measurements at the ICRH antenna on Wendelstein 7-X*

P2.35: Ameer Mohammed, *Commissioning and operation of a real-time Thomson scattering evaluation system for plasma profile determination at the Wendelstein 7-X stellarator*

P2.36: Maylis Dozieres, *General Atomics Excalibur facility for crystal calibration and cold opacity studies*

P2.37: Jibo Zhang, *Development of a Novel Optically Pumped Formic Acid Laser for EAST Polarization Interferometer*

P2.38: SHOUXIN Wang, *Development of a Polarimeter-Interferometer Model Based on Ray Tracing for Predicting Density and Faraday Rotation in Future Fusion Devices*

P2.39: Novimir Pablant, *In-situ wavelength calibration of x-ray spectrometers: needed today, critical for tomorrow*

P2.40: Jesús Salas Suárez-Bárcena, *Microwave interferometry and refractometry diagnostics in SMART*

P2.41: Jafar Fathi, *High power Microwave atmospheric air plasma spectroscopy and opportunity to CO2 decomposition*

P2.42: Tomas Gonda, *Tungsten Transport Analysis using X-ray Spectroscopy at Wendelstein 7-X*

P2.43: Matěj Tomeš, *Forward Model of Synchrotron Radiation by Runaway Electrons for Cherab*

P2.44: Uwe Wenzel, *Neutral pressure gauges with carbide cathodes for magnetic fusion*

P2.45: *Sang Gon Lee, X-ray Imaging Crystal Spectrometer for KSTAR*

Poster session 3

Wednesday 9 April, 15:20 – 17:00

P3.1: Yao Wang, *Multi-color plasma imaging diagnosis based on metasurface*

P3.2: Maryam Huck, *Capillary discharge plasma sources and diagnostics for plasma wakefield acceleration at FLASHForward, DESY*

P3.3: Matteo Hakeem Kushoro, *SiC Neutron Detectors for Harsh Environments: Enhancing the Dynamic Range through Partial Depletion Operation*

P3.4: Soo Hyun Son, *Retention and neutral flux measurement with deposited layer exposed to KSTAR plasma*

P3.5: Ondřej Bareš, *Instrumented high fluence neutron irradiation test of Thick Printed Copper coil sensors – first irradiation cycle results analysis*

P3.6: Xiaoyi Yang, *Introduction to the experimental capabilities of the SPERF-DREX device in China*

P3.7: Jaroslav Čeřovský, *Hard X-ray diagnostics at the COMPASS tomamak and prospects for the COMPASS Upgrade tokamak*

P3.8: Lukáš Lobko, *Direct detection of runaway electrons by in-vessel scintillation probe at the GOLEM tokamak*

P3.9: Marek Tunkl, *Runaway Electron Hard X-ray Diagnostics at the GOLEM Tokamak: A Combined Experimental and Simulation Approach*

P3.10: Haobo Shen, *Density Profile Reconstruction with PIDP-KAN model Training based on Polarimeter-Interferometer Measurement on EAST*

P3.11: Štěpán Malec, *The Timepix3 semiconductor pixel detector as runaway electron diagnostics at the GOLEM tokamak*

P3.12: Yuan Yao, *Far-forward collective scattering measurement by POINT system on EAST tokamak*

P3.13: Donaldi Mancelli, *Challenges of high repetition rate experiments enabling new paths on high energy density physics*

P3.14: Chen Cheng, *Study of the influence of MARFE on the density measurement of interferometers in the EAST device*

P3.15: Puchong Kijamnajsuk, *Current Progress on Development of Absolute Extreme Ultraviolet (AXUV) Detector for Thailand Tokamak 1 (TT-1)*

P3.16: Ondřej Ficker, *Neutron diagnostics at the COMPASS tokamak and outlook to COMPASS-Upgrade*

P3.17: Jiří Malinak, *Gaussian Process Tomography for Bolometer Data*

P3.18: Pascale Hennequin, *Density fluctuation frequency spectra as a tool for studying turbulent plasma motion and transport properties in tokamak plasmas*

P3.19: Roland Sabot, *First Temperature fluctuation images with WEST ECEI*

P3.20: Dmytry Mykytchuk, *High-resolution visible spectroscopy for ion temperature and velocity measurements of the TCV divertor plasmas*

P3.21: Javier Gonzalez-Martin, *Final design of the JT-60SA fast-ion loss detector*

P3.22: Nopparit Somboonkittichai, *Current Progress on Development of Optical Emission Spectroscopic (OES) Diagnostics for Thailand Tokamak 1 (TT-1)*

P3.23: Mark Cornelissen, *Coherence imaging spectroscopy with a polarization-sensitive sensor to visualize the plasma flows in fusion devices*

P3.24: Martin Imríšek, *Deep Learning Approaches to Reconstructing Thomson Scattering Profiles from Fast Diagnostics at COMPASS*

P3.25: Ivan Ďuran, *Antimony Hall sensors with enhanced stability at elevated temperature*

P3.26: Manuel Santos, *Spectroscopic characterization of a plasma in an EM cavity*

P3.27: Humberto Trimino Mora, *Uncertainty Evaluation on a Heavy Ion Beam Probe Synthetic Diagnostic for Wendelstein 7-X*

P3.28: Ramon Lopez-Cansino, *Core impurity flow measurements with Coherence Imaging Charge Exchange Recombination Spectroscopy (CICERS) in Wendelstein 7-X*

P3.29: Gergo I. Pokol, *Modelling of the optical assembly of the EDICAM camera installed at JT-60SA in the RAYSECT-CHERAB modelling framework*

~~**P3.30:** Maxim Kramar, *3D Magnetic Field and Plasma Diagnostics for the Solar Corona*~~

P3.31: Jana Brotankova, *Investigation of frequency transfer function of magnetic probes at the PlasmaLab@CTU*

P3.32: Svetlana Vankova, *Temperature estimation of a titanium wire heated by laser-accelerated electrons using radiographic diagnostic*

P3.33: Sara Abbasi, *Training Dataset Optimization for Improved Neural Network Tomography at GOLEM Tokamak*

P3.34: Edward Dewit, *High-Speed Visible Light Emission Profile Measurements of the Plasma Edge on MAST-U: Potential for Real-Time Applications*

P3.35: Jack Flanagan, *Ultrafast divertor spectroscopy in the MAST-U super-X divertor*

P3.36: Garima Arora, *Study of methane reformation in dielectric barrier discharges using optical emission spectroscopy*

P3.37: Tomas Hoder, *Electrical charge decay on dielectric surface in nitrogen/C4F7N mixtures*

P3.38: Daniel Hachmeister, *Revised RF chain for density profile plasma reflectometry in SPARC*

P3.39: Pablo G A Cirrone, *A new radiation source based on laser-plasma interaction: status and perspective with the upcoming I-LUCE facility at INFN-LNS*

P3.40: Hamad Ahmed, *An Active Ion Spectrometer for Laser-Driven Ion Beams*

P3.41: Kuan Lun Pan, *Application of Plasma Diagnostics for the Analysis of PFAS Removal Using Liquid-Phase Plasma*

P3.42: Patrick Palmeri, *Multiplatform computing of oscillator strengths and transition probabilities in Os V*

P3.43: Giorgio Dilecce, *Characteristics of Glow-Discharge LIBS in a rarefied environment*