

Session Program

17-22 May 2026



27th PSI Conference
Regensburg 2026

27th PSI

Postersession 1

marinaforum REGENSBURG

Monday 18 May

16:10

Postersession 1: Tracks A, B, C, D, E, F and G

Poster Session

1.014 Helium bubbles migration characterized by in-operando GISAXS and in-situ TEM.

Speaker

Loic Corso

1.041 Modelling of tungsten prompt redeposition at the inner wall of ITER during ramp-up

Speaker

Dr Andreas Kirschner

1.031 Impact of energetic fusion products on the first wall of a GenF's ICF reactor

Speaker

Mykola Ialovega

1.090 Analysis of non-resonant divertor experiments in W7-X

Speaker

Dr Dieter Boeyaert

1.093 EDGE2D-EIRENE and EIRENE interpretation of Balmer and Fulcher band emission in JET-ILW Ohmic deuterium plasmas

Speaker

Vesa-Pekka Rikala

1.033 Modelling divertor erosion and tungsten core contamination in DTT negative triangularity scenario

Speaker

Gabriele Alberti

1.061 Boronization and erosion rates of samples exposed in the W7-X stellarator

Speaker

Fotios Maragkos

1.092 Perpendicular transport by turbulence and drifts in the W7-X island divertor

Speaker

Carsten Killer

1.035 Thermophysical characterization of surface deposits from the first high fluence campaign of WEST

Speaker

clément Monet-Vidonne

1.034 Surface morphology damage of rolled W-K plates under different high heat load

Speaker

Fan Feng

1.023 an experimental study of interaction between plasma and flowing Sn free-surface**Speaker**

yukinori hamaji

1.094 Fast processes in the divertors of Wendelstein 7-X and ASDEX Upgrade**Speaker**

Sebastian Hörmann

1.058 Boronization in ITER: Study of the hydrogen isotope interaction and isotope exchange in B:D layers**Speaker**

Anne Houben

1.048 The plasma content in hydrogen and its control on the full-metal tokamak WEST, from restart phases to long pulses.**Speaker**

Dr Laurent COLAS

1.017 Thermal and elastic property evolution of displacement damaged tungsten at fusion-relevant annealing temperatures**Speaker**

Michael Simmonds

1.084 Effects of triangularity on power asymmetry and detachment in TCV double-null plasmas using SOLPS-ITER with drifts**Speaker**

Yanjie Zhang

1.113 Detachment in JET-ILW L-mode deuterium and helium plasmas: Experimental and SOLPS-ITER comparison**Speaker**

David Rees

1.024 Transport of light impurities in Wendelstein 7-X**Speaker**

Matej Mayer

1.046 Investigating the Soret Effect of Deuterium in Metals - A Novel Approach Using Ion Beam Analysis**Speaker**

Mr Alexander Feichtmayer

1.082 Passive detachment front stabilization in baffled divertors using upstream pumping**Speaker**

Andreas Holm

1.027 Sputtering behavior of tungsten-boron mixed layers**Speaker**

Raphael Gurschl

1.104 Diffusion Pump Divertor for Fusion Devices

Speaker

Andrei Khodak

1.085 Divertor Turbulence Control via Leg Geometry: Experimental Tests on TCV tokamak**Speaker**

Marco Cavedon

1.026 Testing low-Z PFC slag removal with strike point sweeping on DIII-D tokamak**Speaker**

Jeremy Mateja

1.045 Doppler Shift of Hydrogen Balmer-alpha in picosecond Laser Induced Breakdown Spectroscopy on W substrates: The Art of Timing and Wavelength Tuning**Speaker**

Rongxing yi

1.103 On the influence of impurity species and X-point geometry on accessibility and dissipation capacity of X-point radiators in fusion reactors**Speaker**

Ulrich Stroth

1.087 3D detachment in the new upper divertor of ASDEX Upgrade induced by a local gas-puff**Speaker**

Tilmann Lunt

1.114 Effect of divertor geometry on neutral compression, SOL width and broadening in MAST Upgrade**Speaker**

Sarah Elmore

1.080 Detachment of type-I ELMy H-mode TCV plasmas via nitrogen seeding and correlations with scrape-off layer properties**Speaker**

Adriano Stagni

1.042 Quantified depth profiling of deeply located deuterium with ps-laser-induced ablation quadrupole mass spectrometry**Speaker**

Christoph Kawan

1.105 SNOWFLAKE DIVERTOR STUDIES IN MAST-U TOKAMAK AND OUTLOOK FOR NSTX-U**Speaker**

Vsevolod Soukhanovskii

1.100 ITER Q = 10 divertor operational window with realistic plasma-facing component geometry**Speaker**

Andrei Pshenov

1.028 Overview of runaway electron (RE) interaction with the beryllium inner limiters in JET**Speaker**

Dr Ionut Jecu

1.016 Exposure of advanced tungsten materials and ultra-high temperature ceramics to divertor plasmas in DIII-D: Analysis of erosion, surface morphology changes, recrystallization, and surface cracking**Speaker**

Robert Kolasinski

1.076 Operational space exploration of the X-Point Radiator scenario in WEST**Speaker**

Nicolas RIVALS

1.115 Effect of Drift Driven Fluxes, Magnetic Geometry Bias, and Operational Actuators on Upper/Lower Asymmetries in MAST-U**Speaker**

Ivan Paradela Perez

1.044 Beam fueling low recycling discharges with modest lithium impurity fraction in LTX-beta**Speaker**

Anurag Maan

1.078 Increased power and performance at Wendelstein 7-X: effect on the scrape-off layer transport and first attempts of combined core/edge scenarios**Speaker**

Valeria Perseo

1.112 Heat flux expansion in high heat flux experiments on DIII-D**Speaker**

Auna Moser

1.111 Investigating the role of baffling, fuelling location, and total flux expansion on detachment front location sensitivity in MAST-U discharges**Speaker**

Nicola Lonigro

1.108 Empirical scaling of divertor heat loads in Wendelstein 7-X**Speaker**

Dr Yu Gao

1.079 Physics of the decay length broadening and asymmetry: Insights from SOLPS modelling**Speaker**

Jae-Sun Park

1.065 Experimental investigations of impurity enrichment in the divertor of Wendelstein 7-X**Speaker**

Frederik Henke

1.110 The exhaust capability of the quasi-continuous exhaust regime

Speaker

Michael Faitsch

1.043 Thermal desorption and retention of deuterium in helium-implanted and displacement-damaged EUROFER97 at reactor-relevant temperatures**Speaker**

Andreas Theodorou

1.109 Dynamic SOLPS-ITER modelling of the X-point radiator regime in ITER**Speaker**

Anastasia Poletaeva

1.119 Development and validation of an integrated SOLPS-EPED model in MAST-U**Speaker**

Dr Davis Easley

1.069 Impact of plasma shape on impurity sources and resulting W core contamination in KSTAR and WEST.**Speaker**

Alex GROSJEAN

1.019 Angular distributions of sputtered particles: influence of surface topography and texture**Speaker**

Benjamin Burazor Domazet

1.059 Spectroscopic characterisation of boronisation glow discharges in ASDEX Upgrade**Speaker**

Ralph Dux

1.072 Advancing Fusion Pilot Plant Readiness through the Tungsten Wall Transition on DIII-D**Speaker**

Tyler Abrams

1.051 Near-surface hydrogen inventory response to picosecond laser pulses in tungsten.**Speaker**

Maria Popova

1.021 Application of the linear plasma device PSI-2 as benchmark of hydrogen plasma chemistry**Speaker**

V Kotov

1.053 Parametric Study of Plasma-Driven Permeation in the Diagnostic First Wall of ITER**Speaker**

Tom Wauters

1.062 Investigation of boron distribution on multiple anodes applied in W7-X using ex-situ picosecond laser-induced breakdown spectroscopy

Speaker

Sebastijan Brezinsek

1.074 Linking simulated ICRF sheath-rectified potentials to measurements in ASDEX Upgrade and JET**Speaker**

Dr Volodymyr Bobkov

1.022 Vision transformer based model regression for plasma exposed surface structures**Speaker**

Torben Schmitz

1.063 A heuristic model for the effects of real-time and glow discharge boronization**Speaker**

Alessandro Bortolon

1.097 Classifying ST40 plasmas through SepOS framework**Speaker**

Erin Joy Tinacba

1.088 Evaluation of light impurity turbulent transport in the edge plasma from 3D multi-fluid turbulence simulations**Speaker**

Patrick Tamain

1.067 Prompt Redeposition of Divertor and ICRH-Sourced Tungsten in WEST Measured with Ultraviolet W I/W II Spectroscopy**Speaker**

Curtis Johnson

1.030 Sputtering Behavior of He-W Co-Deposited Layers: Experiments and Modeling**Speaker**

Noriyasu Ohno

1.098 Study of alternative divertor configurations with first-principles, self-consistent, global turbulence simulations**Speaker**

Sergio Garcia Herreros

1.057 Effect of boron coatings on hydrogen isotope exchange effect in tungsten**Speaker**

Dr Tomi Vuoriheimo

1.117 Effect of strike point position on the divertor heat load for Japanese DEMO**Speaker**

Dr Hang Si

1.020 First mirror cleaning and impedance characterization for the ITER Core Plasma Thomson Scattering diagnostic**Speaker**

Youpeng Wang

1.039 Tungsten erosion and injection investigations in the stellarator Wendelstein 7-X: Results from OP2.1-2.3**Speaker**

Chandra Prakash Dhard

1.029 Physical and chemical erosion of thin boron and amorphous boron-hydride films investigated at the linear plasma device PSI-2**Speaker**

Marc Sackers

1.032 Experimental analysis of Pt marker erosion in the outer divertor region of ASDEX Upgrade during L- and H-mode discharges**Speaker**

Samuli Saari

1.089 Impact of the toroidal field direction on SOLEDGE3X 3D turbulent simulations of the COMPASS boundary plasma**Speaker**

Michele Lambresa

1.118 The impact of boron on tungsten plasma facing walls: sputter yields, near-surface morphology, and fuel retention**Speaker**

Daniel Primetzhofer

1.040 Divertor Material Evaluation System (DiMES) at the DIII-D tokamak: 30 years of PMI research**Speaker**

D.L. Rudakov

1.066 Neoclassical impurity transport in the tokamak transport barrier and pedestal with SOLPS-ITER**Speaker**

Prof. Vladimir Rozhansky

1.077 The effects of lithium plasma-facing surfaces on the scrape-off layer and core plasma in tokamaks**Speaker**

Dick Majeski

1.120 Non-Equilibrium Ion Dynamics in Tungsten: A Machine Learning Approach to Radiation Damage**Speaker**

Gabrielle Koknat

18:40