

Session Program

17-22 May 2026



27th PSI Conference
Regensburg 2026

27th PSI

Oral

marinaforum REGENSBURG

Monday 18 May

09:30

Oral: Morning session

Session

09:30–09:50

O1 Integrated modeling of wall material evolution and the boundary plasma transport for EAST long-pulse discharges

Speaker

Guoliang Xu

09:50–10:10

O2 Understanding the sputtering phenomena of complex surfaces

Speaker

Fredric Granberg

10:10

11:10

Oral: Morning session

Session

11:10–11:30

O3 Time-resolved simulation of erosion on tungsten-coated divertor plate in the Large Helical Device using ERO2.0

Speaker

Mamoru Shoji

11:30–11:50

O4 Refining High-Z Impurity Sourcing and Transport Models for Mixed Material Plasma-Facing Component Operations at DIII-D

Speaker

Prof. David Donovan

11:50

13:50

Oral: Afternoon session

Session

13:50–14:10

O5 Study of Charge-exchange Neutral Distribution and its Impact on First wall Erosion in EAST

Speaker

Jin Guo

14:10–14:30

O6 Impact of turbulent SOL fluctuations on tungsten sources in ASDEX Upgrade

Speaker

Henri Kumpulainen

14:30–14:50

O7 3D numerical modeling of W erosion and migration in WEST plasma: impact of magnetic ripple on erosion patterns and core contamination

14:50

Speaker
Dr Guido Ciralo

Tuesday 19 May

09:10

Oral: Morning session

Session

09:10–09:30

O8 Thermal-gradient effects on recrystallization and grain coarsening in fusion-relevant tungsten monoblocks: a phase-field study

Speaker

Prof. Narguess Nemati

09:30–09:50

O9 Qualification of plasma-facing materials via public and private sector experiments in DIII-D

Speaker

Florian Effenberg

09:50

10:50

Oral: Morning session

Session

10:50–11:10

O10 Coupling Microstructural Evolution Simulations to Material Property Degradation Predictions for Plasma-Facing Materials

Speaker

Dr Stephanie Pitts

11:10–11:30

O11 Tungsten heavy alloys for application as plasma facing material in fusion devices

Speaker

Johann Riesch

11:30–11:50

O12 An overview of Lithium and PSI/PMI results from the HIDRA Team

Speaker

Prof. Daniel Andruczyk

11:50

14:20

Oral: Afternoon session

Session

14:20–14:40

O13 Ion temperature measurements on the lower divertor of the WEST tokamak from attached plasmas to detached and X-point radiator regimes

Speaker

James Gunn

14:40–15:00

O14 SOLPS-ITER modelling of JET-ITER baseline discharges

Speaker

Ou Pan

15:00

Wednesday 20 May

09:10

Oral: Morning session Session

09:10–09:30

O15 Explaining observed potential and drift phenomena in Wendelstein 7-X with the mean-field Braginskii model

Speaker
Tobias Tork

09:30

10:00

Oral: Morning session Session

10:00–10:20

O16 The PULSE regime: pellet-utilized long-pulse high-performance operation in W7-X

Speaker
Andreas Dinklage

10:20

10:50

Oral: Morning session Session

10:50–11:10

O17 Integration of high normalized beta core with divertor detachment in DIII-D

Speakers
Filippo Scotti, Huiqian Wang

11:10

11:40

Oral: Morning session Session

11:40–12:00

O18 Collisional sheath impact on ITER divertor plasma and power exhaust

Speaker
Dr David Tskhakaya

12:00–12:20

O19 Unprecedented characterisation of ion kinetics in the tokamak divertor from attached to detached regimes

Speaker
Richard Ducker

12:20

Thursday 21 May

08:40

Oral: Morning session

Session

08:40–09:00

O20 He and D retention in bulk-W lamellae from the JET divertor measured by Laser-Induced Desorption with melting

Speaker

Dr Miroslaw Zlobinski

09:00

09:30

Oral: Morning session

Session

09:30–09:50

O21 Simultaneous self-damaging and deuterium plasma exposure leading to increased deuterium retention in tungsten

Speaker

Anže Založnik

09:50

10:50

Oral: Morning session

Session

10:50–11:10

O22 Time-dependent SOLPS-ITER simulations of type-I ELMs in ASDEX Upgrade H-mode plasmas: experimental validation and impact on particle exhaust

Speaker

Dr Antonello Zito

11:10–11:30

O23 Validating edge plasma simulations in TCV: a multi-diagnostic, experiment-driven approach

Speaker

Elena Tonello

11:30–11:50

O24 Evaluating trade-offs in integrated power exhaust solutions for next-step devices through multi-machine projections of the separatrix operating space

Speaker

Bart Lomanowski

11:50–12:10

O25 Unified Scaling Laws Linking Gas Puffing Rates and Separatrix Quantities: A Multi-Machine Empirical Study

Speaker

Matteo Moscheni

12:10

14:10

Oral: Afternoon session

Session

14:10-14:30

O26 Recycling Control for Long-Pulse Plasma Confinement: Statistical Evidence and a 1000 s H-Mode in EAST

Speaker

Yaowei Yu

14:30

Friday 22 May

08:40

Oral: Morning session

Session

08:40–09:00

O27 Negative Triangularity as a Reactor-Relevant Scenario: High-Performance Detached Plasmas on TCV Leveraging Alternative Divertor Configurations

Speaker

Garance Durr-Legoupil-Nicoud

09:00

13:50

Oral: Afternoon session

Session

13:50–14:10

O28 Tokamak boundary turbulence of detached plasmas with kinetic neutrals

Speaker

Diego Oliveira

14:10–14:30

O29 Accounting for cross-field transport and neutral recycling in a Lengyel-like detachment model

Speaker

Thomas Body

14:30

15:00

Oral: Afternoon session

Session

15:00–15:20

O30 Pedestal origin, SOL transport and extrapolation of small-ELM energy flux in ITER and SPARC

Speaker

Renato Perillo

15:20