

Sherwood Fusion Theory Conference 2024

Poster session 3 : Tuesday 16:00 to 18:00

P3.01	Timothy Stoltzfus-Dueck (PPPL)	Self-consistent orbit-flux drive for electric field and toroidal rotation (Invited talk)
P3.02	Myriam Hamed (Texas)	Machine learning-enhanced modeling of electromagnetic heat fluxes in tokamak pedestal
P3.03	Eric Howell (Tech-X)	Validating extended MHD RMP simulations in KSTAR Discharges
P3.04	Seung-Hoe Ku (PPPL)	Neoclassical Properties of Tokamak Edge Plasmas with Negative Triangularity
P3.05	Atul Kumar (ORNL)	Modeling impurity generation and transport in the Prototype-Material Plasma Exposure eXperiment (Proto-MPEX) under various heating scenarios
P3.06	Jessica Li (PPPL)	The importance of kinetic electrons for microinstabilities in negative triangularity tokamaks
P3.07	Yuzhi Li (LANL)	An investigation of divertor plasma recombination using a molecular collisional-radiative model
P3.08	Dmitri Orlov (UCSD)	Validation of plasma response and turbulence simulations in KSTAR discharges
P3.09	Cole Stephens (Texas)	Quasilinear Modeling of Microtearing Modes in the Pedestal
P3.10	Andreas Kleiner (PPPL)	Extended-MHD simulations of disruption mitigation via massive gas injection in SPARC (Invited talk)
P3.11	Chang Liu (PPPL)	Nonlinear simulation of Alfvénmodes in Tokamak Disruptions and Impact on Runaway Electron Transport (Invited talk)
P3.12	Chris McDevitt (Florida)	Physics constrained deep learning of runaway electron generation in tokamak plasmas (Invited talk)
P3.13	Steven Sabbagh (Columbia / PPPL)	High Accuracy Physics-Based Tokamak Disruption Event Characterization and Forecasting with First Real-Time Application (Invited talk)
P3.14	Alexandre Sainterme (Wisconsin-Madison)	Resistive Hose Modes in Tokamak Runaway Electron Beams (Invited talk)
P3.15	Hank Strauss (HRS Fusion)	Preventing RWTM Disruptions with Feedback (Invited talk)
P3.16	Minglei Yang (ORNL)	Modeling of runaway electrons dissipation with impurity injection in DIII-D and JET
P3.17	Matthew Beidler (ORNL)	Spatially dependent KORC simulations of runaway electron mitigation via impurity injection in JET
P3.18	Omar Lopez (ORNL)	Kinetic-MHD equilibrium initialization for runaway electron beam dynamics in tokamaks
P3.19	Brendan Lyons (GA)	Validation of Extended-Magnetohydrodynamic Modeling of Disruption Mitigation with Collisional-Radiative Impurities
P3.20	William Messenger (Auburn)	Disruption identification in fusion plasmas with three-dimensional magnetic field configurations
P3.21	Bamandas Basu (MIT)	Magnetic Reconnection Driven by Particle Kinetic Energy Densities
P3.22	Qile Zhang (LANL)	Fully Kinetic Simulations of Runaway Electron Induced Wave-particle Interactions in Tokamak towards Nonlinear Saturation
P3.23	Elena Belova (PPPL)	Effects of global Alfvén eigenmodes on the beam ions in NSTX-U (Invited talk)
P3.24	Andrew Ingram (Wisconsin-Madison)	Numerical simulation of local and coaxial helicity injection in Pegasus-III
P3.25	Thomas Jenkins (Tech-X)	Kinetics-only Delta-f (KODF) Modeling of RF Waves in Warm Plasma
P3.26	Haotian Mao (LANL)	Rapid assimilation of high-Z impurities along the magnetic field line from an ablated pellet

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P3.27	Yanzeng Zhang (LANL)	On the parallel electrostatic collisionless shocks in hot-cold ablative mixing plasmas
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