Sherwood 2026 - Poster Session P1

35 posters

Poster	Presenter	Organization	Title
P1.1	Georgia O. Acton	Max-Planck-Institut fur Plasmaphysik	A Weakly Nonlinear Theory of Zonal-Flow Forcing in Gyrokinetic Turbulence
P1.2	Allen H Boozer	Columbia University	Non-Ambipolarity of Microturbulent Transport
P1.3	James M. Edmiston	University of Oxford	Generation of Low-Frequency Flows by Alfvén Waves in MHD
P1.4	Norman M. Cao	Institute for Fusion Studies	Detecting Shearless Phase-Space Transport Barriers in Global Gyrokinetic Turbulence Simulations
P1.5	Joseph R Jepson	Columbia University	Towards a physics understanding of neoclassical tearing mode (NTM) pseudo-entrainment in spherical and conventional tokamaks
P1.6	Erik C. Hansen	University of Texas, Austin	Self-Consistent Mechanisms for Plasma Turbulence
P1.7	Qile Zhang	University of Maryland, College Park	Nonlinear Self-mediation of Runaway Electrons via Self-excited Wave-wave and Wave-particle Interactions
P1.8	Adelle M. Wright	University of Wisconsin - Madison	Investigating the accessibility of stable reactor operating regimes in quasi-symmetric stellarators
P1.9	Tommaso Barberis	Princeton Plasma Physics Laboratory	Reduced model of the interaction between microturbulence, energetic particles and energetic particle driven modes.
P1.10	Elena V Belova	PPPL	Hybrid Simulations of Beam-Driven TAEs and Interchange-TAE Transition in NSTX-U
P1.11	Kissman H. Franco	University of Wisconsin-Madison	Analysis of relaxed states in simulations of ultra-low-q pinches
P1.12	Vinicius N Duarte	Princeton Plasma Physics Laboratory	Bridging between weakly and strongly driven quasilinear regimes with a convolutional resonance function
P1.13	Mark Cianciosa	Oak Ridge National Laboratory	Development of a VMEC-NN using Physics Informed Machine Learning
P1.14	Katia Camacho Mata	Type One Energy Group	Physics design of the Infinity Two Fusion Pilot Plant
P1.15	Dylan P Brennan	General Fusion	Error field penetration limits in stable toroidal compression experiments
P1.16	Eva Kostadinova	Auburn University	Reconstructing Anomalous Transport in Magnetized Plasmas via Spectral and Statistical Methods
P1.17	Javier Escoto	Princeton Plasma Physics Laboratory	MONKES: a neoclassical code for fast evaluation of the bootstrap current and stellarator optimization
P1.18	Thomas Foster	Princeton University	Drift-orbit resonances of trapped alpha particles in quasisymmetric stellarators
P1.19	Eric Held	Fiat Lux, LLC	Application of Douglas-Rachford Splitting to Continuum Drift Kinetic Solves (CDK) in NIMROD CDK
P1.20	Morrison J Phillip	University of Texas, Austin	Using metriplectic relaxation to calculate equilibrium states
P1.21	Christopher Hansen	Columbia University	The Open FUSION Toolkit: An open-source suite of fusion modeling tools for engineering, analysis, and education
P1.22	Jacob Halpern	Columbia University	Rapid Vacuum Energy Response Calculations for Tokamak and Stellarator Equilibria
P1.23	Tong Wang	The University of Texas at Austin	Time-dependent parallel electron energy transport in a magnetized plasma of arbitrary collisionality
P1.24	Qi Tang	Georgia Institute of Technology	An adaptive Newton-based equilibrium solver and its structure-preserving initialization for dynamic MHD
P1.25	Alexander B. Rechester	Institute for Nonlinear Science Applications	Radiation Effects in Tokamaks

Poster	Presenter	Organization	Title
P1.26	Carl R. Sovinec	University of Wisconsin-Madison	NIMSTELL Computations of Ballooning in a Quasi-Axisymmetric Stellarator
P1.27	Sanket Patil	University of Wisconsin-Madison	Pressure-driven MHD instabilities in low-shear stellarator configurations: Computational and analytical modeli
P1.28	Maxwell H Rosen	Princeton University	Gyrokinetic equilibria for high field magnetic mirrors with a pseudo orbit-averaging algorithm
P1.29	Kassandra Salguero-Martínez	UNAM	Equilibrium of a simplified coil quasi-axisymmetric stellarator
P1.30	Yuchen Lin	University of Texas at Austin	Forced Magnetic Reconnection in Flowing Tokamak
P1.31	William J. White	Helion Energy, Inc.	Probing the lifetime and stability of field-reversed configuration plasmas via hybrid fluid-kinetic simulations
P1.32	Linjin Zheng	The University of Texas at Austin	Equilibrium of a rotating mirror plasma
P1.33	David M Testa	Institute for Fusion Studies	Revisiting Ballooning Stability in Levitated Dipole Geometries
P1.34	Aaron Tran	University of Wisconsin–Madison	Non-Maxwellian Effects on Gyrokinetic Flute Stability in Axisymmetric Mirrors
P1.35	Omar Lopez	Oak Ridge National Laboratory	PETSc implementation for runaway electron projection in NIMROD