Poster Session II ~ 4:00 to 6:00pm ~ Monday, April 15, 2019
Room Location: Forrestal Ballroom Salons E-H

Poster #	Author	Title
P2.001	Carl Bender	PT symmetry: physics in the complex domain
P2.002	Michael Kotschenreuther	Regimes of weak ITG/TEM modes for transport barriers without velicity shear in low rho* plasmas
P2.003	Walter Guttenfelder	Predictions of electron scale pedestal turbulence in DIII-D ELMy H-modes
P2.004	Jeronimo Garcia	New theoretical insights on the role of ion isotope on transport and turbulence
P2.005	Scott Parker	Plasma theory connections to quantum information science
P2.006	Alain Brizard	Symplectic gyrokinetic Vlasov-Maxwell theory
P2.007	Torrin Bechtel	High-beta Stellarator Equilibrium with Finite Parallel Transport
P2.008	Chris Hegna	Progress in Turbulent Transport Optimization in Stellarators
P2.009	Carl Sovinec	Design and Development for a Stellarator Macroscopic Dynamics Code
P2.010	David Hatch	Understanding pedestal transport via combined gyrokinetic and edge modeling: the FY19 Theory Performance Target
P2.011	Alan Glasser	Resistive Tearing Layer Matching Conditions, Revisited
P2.012	Richard Fitzpatrick	Two-Fluid Nonlinear Theory of Response of Tokamak Plasma to Resonant Magnetic Perturbation
P2.013	Darin Ernst	New Mechanisms for Improved Confinement with Isotopic Mass
P2.014	T. Xie	Numerical studies on the gyrokinetic natural boundary value problem for microturbulence in Tokamak
P2.015	Ben Zhu	Up-down asymmetry induced particle pinch in global edge simulations
P2.016	Rhea Barnett	A 1D coupled RF / transport model for ponderomotive density modification of the SOL near high power RF actuators
P2.017	Luis Chacon	Moment-accelerated, Fully Implicit, Conservative, Electromagnetic Multidimensional Particle-In-Cell Algorithms on Curvilinear Meshes with Realistic Boundaries
P2.018	Vinicius Duarte	Verifying reduced quasilinear models for fast ion relaxation
P2.019	Anna Grafov	Chaotic transitions in the ITG-zonal flow system
P2.020	Renato Spigler	High Energy Particle Produced by Ballooning Modes Driven by the Modulated Gravitational Field of Collapsing Binaries
P2.021	Guannan Zhang	A GPU-enabled backward Monte Carlo method for 3D runaway electron simulation
P2.022	Richard Reksoatmodjo	Numerical SOLPS-ITER study of the effect of fueling on ionization and neutral density profiles in EDA H-modes on Alcator C-Mod
P2.023	Roscoe White	Collisional Resonance Broadening
P2.024	Xueqiao Xu	On the Divertor Heat Flux Width Scaling

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P2.025	George Vahala	Unitary Qubit Lattice Algorithms for PT-symmetric Nonlinear Schrodinger Equations: breathers, solitons, and rogue waves
P2.026	Hang Si	Advanced Divertor Design and Study: from present EAST/DIII-D to future tokamak device CFETR
P2.027	Chang Liu	Quasilinear analysis of wave-particle integration for sub-cyclotron resonance
P2.028	Alexander Glasser	Toward plasma simulations with exact conservation of energy, momentum and charge
P2.029	Nicolas Christen	Simulating background toroidal flow shear with the local gyrokinetic code GS2
P2.030	Bamandas Basu	Novel Mode-Particle Resonances for Ballooning Modes in Fusion Reacting Plasmas
P2.031	Nikolai Gorelenkov	Nonperturbative simulations of fishbone and kink mode instabilities in ITER
P2.032	David Zarzoso	Particle transport induced by energetic geodesic acoustic modes
P2.033	Oliver Beeke	Effect of shaping on turbulent transport in JT-60SA
P2.034	Guozhong Deng	Experimental and modeling study of divertor particle flux width on EAST
P2.035	Alexander Engel	Applying Quantum Computation to Classical Plasma Simulation
P2.036	Hua-sheng Xie	Unified Numerically Solvable Framework for Complicated Kinetic Plasma Dispersion Relations
P2.037	Chris Hansen	Reconstruction of plasma equilibrium and eddy current induced error fields in the Lithium Tokamak eXperiment-β
P2.038	Omar Lopez	External kink modes and resistive wall modes in the presence of a diffuse toroidal angular velocity profile
P2.039	Yanbin Xi	Influence of density profiles on LH wave propagation in fusion edge plasma
P2.040	Elena Belova	Simulation study of energetic ion confinement in FRC
P2.041	Adelle Wright	Resistive stability of cylindrical MHD equilibria with radially localised pressure gradients
P2.042	Allen Boozer	Fast Magnetic Reconnection and the Ideal Evolution of a Magnetic Field
P2.043	Xishuo Wei	Gyrokinetic particle simulation of electrostatic microturbulence with impurity ions
P2.044	Dylan Brennan	Rotation and beta dependence of numerical two fluid layer stability limits in tokamaks
P2.045	Yahui Wang	Perturbative radiative damping of RSAEs in NOVA-K code
P2.046	Kyle Bunkers	Investigation of the Effects of the Magnetic Presheath and Braginskii Thermal Conduction on VDEs
P2.047	Joe Taylor	High-order integrators for gyrokinetic applications
P2.048	Joshua Burby	Loop space integrator for guiding center simulations

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P2.049	Xianzhu Tang	Constraints and options in runaway avoidance by impurity injection and runaway energy control via fast wave injection
P2.050	Alessandro Cardinali	Maxwell Equations and Helmholtz Decomposition Theorem for high frequency wave in magnetized plasmas
P2.051	Qi Tang	Finite element schemes for reduced resistive MHD
P2.052	Guangye Chen	A machine-learning checkpoint/restart algorithm for particle-in-cell simulations
P2.053	Charles Swanson	Fermi Acceleration in Magnetic Mirrors Enabled by Magnetic Moment Mobility
P2.054	M. Cianciosa	Performance Optimization and GPU Implementation of KORC
P2.055	Denis St-Onge	Investigating the Spectral Transfer of Free Energy in the Dimits Shift
P2.056	Cesar Clauser	Simulations of Vertical Displacement Events in ITER using the M3DC1 code
P2.057	J. Andrew Spencer	Implementation of continuum kinetics to parallel heat transport
P2.058	Michael Cole	Global simulations of ion temperature gradient driven modes in Wendelstein 7-X with the gyrokinetic code XGC
P2.059	Christopher Smiet	Mapping the sawtooth
P2.060	Bruno Coppi	Magneto-thermal Reconnection Processes and Tridimensional Ignition
P2.061	Haijun Ren	Electromagnetic effect on geodesic acoustic mode with adiabatic electrons
P2.062	Wrick Sengupta	Non-analytic behavior of vacuum and equilibrium magnetic fields with surfaces near the magnetic axis
P2.063	Brian Cornille	A Comparison of Galerkin and First Order System Least Squares Finite Element Formulations of Electron Magnetohydrodynamics
P2.064	Andris Dimits	Including RF Antenna Effects in Scrape-Off-Layer-Turbulence Simulations
P2.065	Tony Qian	Self Intersecting Beam Accelerator **CANCELLED**
P2.066	Hongpeng Qu	Reduced neoclassical effects on NTM evolution **CANCELLED**