Poster Session I ~ 1:30 to 3:30pm ~ Monday, April 15, 2019
Room Location: Forrestal Ballroom Salons E-H

Poster #	Author	Title
P1.001	Mark Herrmann	Creating, diagnosing, and controlling high energy density plasmas on the National Ignition Facility
P1.002	Ilya Dodin	Mode-converting wave beams can be simulated without full - wave codes
P1.003	Allan Reiman	Suppression of tearing modes by RF current condensation
P1.004	Elizabeth Paul	Adjoint methods for efficient stellarator optimization and sensitivity analysis
P1.005	Nathaniel Ferraro	Simulations of fast thermal quench using two-temperature model
P1.006	Tariq Rafiq	Microtearing Modes in Low Collisionality NSTX Discharges
P1.007	Kehfei Liu	Accelerator Based Fusion Reactor
P1.008	Michael Barnes	Stellarator micro-stability at low collisionalities
P1.009	Colin Myrick	Exact solutions and finite-time singularities of a four-field model in 2D dissipationless Hall magentohydrodynamics
P1.010	Zhisong Qu	Multiregion Relaxed MHD (MRxMHD) with flow
P1.011	Arunav Kumar	Stability Analysis of MultiRegion Relaxed MHD (MRxMHD) in the Cylindrical Geometry
P1.012	Robert Dewar	Variational Formulations of Relaxed Fluid Dynamics and Relaxed MHD with time-varying boundaries
P1.013	Abhay Ram	Electron cyclotron current drive by high intensity, pulsed, Gaussian beams
P1.014	Wallace Manheimer	Fusion Breeding and the Scientific Prototype
P1.015	Ge Wang	Reduced kinetic model of runaway electrons in NIMROD
P1.016	Don Daniel	A fully implicit, 0D2P, scalable, nonlinear, conservative, relativistic, Fokker-Planck solver for runaway electrons
P1.017	Yuri Petrov	Runaway Electron Dynamics Modelled with the CQL3D Fokker-Planck Solver, Including Radial Transport and Ampere-Faraday Equation
P1.018	Lee Ricketson	An energy-conserving and asymptotic-preserving time integrator for multiscale implicit PIC simulation of magnetized plasmas
P1.019	Trevor Taylor	A comparison of NIMROD's continuum and delta-f PIC approaches to energetic particle physics
P1.020	Julien Dominski	Large amplitude high-Z impurity asymmetries in total-f neoclassical gyrokinetic simulations with XGCa
P1.021	Linjin Zheng	The X point theory and numerical solution
P1.022	W.W. Lee	Force Free State for Tokamak Plasmas
P1.023	Fabio Camilo de Souza	Kinetic Effects on Adiabatic Index via Geodesic Acoustic Continuum Calculations
P1.024	Tyler Cote	Using PB3D to model peeling-ballooning stability in 3D pedestals
P1.025	Brett Adair	A Collocation Approach for Collisional Effects in Drift Kinetics

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P1.026	Guozhong Deng	Experimental and modeling study of divertor particle flux width on EAST
P1.027	David Green	An Adaptive Sparse Grid Discretization for High Dimensional Advection Diffusion Problems
P1.028	Thomas Jenkins	Comparing PIC and fluid models of RF sheath physics
P1.029	Pengfei Liu	Simulation models using fully kinetic ions and massless fluid electrons
P1.030	Swadesh Mahajan	The Unified Relativistic Electro-Vortical Field - Revisiting Magneto-Genesis, Reconnection, Relativistic Waves
P1.031	Henry Oliver	Modification of the Alfvén spectrum by pellet injection
P1.032	Valeria Ricci	Mode-particle Interactions as Sources of Gamma-ray Bubbles in the Galaxy
P1.033	Linda Sugiyama	The Quasi-Interchange Sawtooth Crash
P1.034	Alan Turnbull	Ideal MHD, Damping, Drive, and Poynting Flux
P1.035	Roscoe White	A simple model for perturbative kinetic particle resonance in tokamaks
P1.036	Matt Landreman	Optimized stellarators without optimization: Direct construction of stellarator shapes with good confinement
P1.037	Fatima Ebrahimi	3-D reconnecting current-sheet instability during transient events in tokamaks
P1.038	Adil Hassam	Multiscale structures and noise in magnetized plasmas line-tied at conducting surfaces
P1.039	Di Qi	A flux balanced Hasegawa-Wakatani model for collisional plasma edge turbulence
P1.040	John Finn	Degenerate variational integrators with improved accuracy
P1.041	U. Gupta	Numerical Investigation of Quasi-Single Helicity in RFPs with the NIMROD Code
P1.042	Gerrit Kramer	Enhanced radial energy transport induced by radially Curved Alfvén Eigenmode wavefronts
P1.043	Yasutaro Nishimura	Computational studies of diverted positive and negative triangularity tokamaks
P1.044	Timothy Stoltzfus-Dueck	A General Transport-Oriented Formulation of Orbit Loss
P1.045	Hongyu Wang	GTC simulation of drift wave turbulence in W7-X and LHD stellarators
P1.046	Caoxiang Zhu	Quick identification of dangerous coil deviations using a Hessian matrix method
P1.047	Cihan Akcay	Nonlinear simulations of locking for finite β and favorable average curvature
P1.048	Yang Chen	Nonlinear damping of Reverse Shear Alfven Eigenmodes induced by electron streaming along the perturbed field line
P1.049	Diego del-Castillo-Negrete	Gyro-averaged effects on ExB weak turbulence transport
P1.050	Gilberto Faelli	Renovatio Memoriae and Damnation Memoriae: Signs of Solid Standing of the Compact High Field Machine Approach for Fusion

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P1.051	Robert Hager	Understanding the RMP-driven density and heat transport in tokamak edge plasma from advanced coupled gyrokinetic-MHD study with XGC and M3D-C1
P1.052	Jacob King	Development of an impurity model for MHD simulations
P1.053	Chenhao Ma	Development of electromagnetic capability of GTS
P1.054	Ales Necas	Integrated Modeling of Stability and Transport of FRC Plasmas
P1.055	Daniel Barnes	Evolving background delta-f method
P1.056	Henry Strauss	JET wall force and thermal quench in experiment and simulations
P1.057	Yao Zhou	Formation of solitary zonal structures via the modulational instability of drift waves
P1.058	Jian Bao	Nonlinear saturation of toroidal Alfvén eigenmode by zonal fields in DIII-D plasmas
P1.059	Sebastian De Pascuale	Leveraging Reduced-Order Models of Simulation Data
P1.060	Luca Guazzotto	Effect of Two-Fluid Equilibrium Flow on Tearing Linear Stability
P1.061	Linda Vahala	Unitary Qubit Lattice Algorithm for Three-Dimensional Vortex Solitons in Hyperbolic Self-Defocusing Nonlinear Media
P1.062	Min-Gu Yoo	A global gyrokinetic simulation study of the magnetic island effects on the plasma transports
P1.063	Phil Morrison	Lagrangian and Dirac Constraints for the Ideal Incompressible Fluid and Magnetofluid
P1.064	Guillaume Brochard	Linear and non-linear study of the $n = m = 1$ alpha particles induced fishbone MHD mode
P1.065	Giovanni Lapenta	ECSim: Energy Conserving Semi Implicit Particle in Cell method **CANCELLED**