

Poster Session I ~ 1:30 to 3:30pm ~ Monday, April 23, 2018**Room Location: Grand Ballroom 1/2**

Poster #	Author	Title
P1.001	Richard Hawryluk	What will we learn from ITER?
P1.002	Emily Belli	Critical Role of Sonic Rotation on Ion and Impurity Transport
P1.003	Jan Weiland	Toroidal Drift Modes Driven by the Magnetic Drift Resonances
P1.004	Maxim Umansky	Detached plasma regimes in innovative long-legged divertor configurations
P1.005	R. Jorge	A gyrokinetic model for the tokamak periphery
P1.006	Scott Baalrud	Collisional Transport in Strongly Magnetized Plasmas
P1.007	Nikolai Gorelenkov	A quasi-linear resonance broadened model for fast ion relaxation in the presence of Alfvénic instabilities
P1.008	Vinicius Duarte	Verification of the Resonance Broadening Quasilinear (RBQ) code
P1.009	Meng Li	Modeling of disruptive instabilities with energetic particle effects, resistive wall and flow in DIII-D experiments
P1.010	Cihan Akcay	Nonlinear simulations of locking in the presence of tearing layers with real frequencies
P1.011	Evstati Evstatiev	Reduction of noise in particle methods
P1.012	Benjamin Faber	Exploring geometry dependence of saturation in stellarator turbulence
P1.013	Guozhong Deng	Simulation of divertor heat flux widths on EAST by BOUT++ transport code
P1.014	Weston Stacey	Ion Orbit Loss & Radial Electric Field in Tokamaks
P1.015	Wendell Horton	High-Beta Relaxed Toroidal Plasma Confinement in FRC
P1.016	Tyler Cote	Toroidal localization of edge ballooning instability in the presence of strong applied 3D magnetic perturbations
P1.017	Ge Dong	Nonlinear Saturation of Kinetic Ballooning Modes by Zonal fields in Toroidal Plasmas
P1.018	Silvia Espinosa	Theoretical explanations of I-mode impurity removal and H-mode poloidal pedestal asymmetries
P1.019	Fatima Ebrahimi	Onset and nonlinear relaxation of coherent current-carrying filaments during ELMs and vertical displacement events in tokamaks
P1.020	Adrian Fontanilla	Ablation and expansion of high-Z pellets
P1.021	David Hatch	Gyrokinetic Simulations of JET Pedestals
P1.022	Paolo Buratti	Evolution of the Reconnecting Internal Kink Mode
P1.023	Guangye Chen	Moment-accelerated, Fully Implicit, Conservative, Electromagnetic 3D-3V Particle-In-Cell Algorithms on Curvilinear Meshes with Realistic Boundaries
P1.024	Bruno Coppi	Predicted Radiation Precursors to the Collapse of Black Holes Binaries Based on Resonating Plasma Modes
P1.025	Xiang Fan	Cascades, “Blobby” Turbulence, and Target Pattern Formation in Elastic Systems: A New Take on Classic Themes in Plasma Turbulence
P1.026	Tünde Fülöp	Runaway electron dynamics in disruptions

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P1.027	Luca Guazzotto	A Multi-Fluid Analysis of Burning Plasmas
P1.028	Brendan Lyons	Multiphysics disruption modeling with extensions to M3D-C1
P1.029	Alain Brizard	Perturbative variational formulations of reduced Vlasov-Maxwell equations
P1.030	Mark Cianciosa	Machine Learning for Inverse Methods
P1.031	Matt Landreman	Computing local sensitivity and tolerances for stellarator physics properties using shape gradients
P1.032	Philip Morrison	On Lagrangian and Dirac constraints for the ideal incompressible fluid and magnetofluid
P1.033	Mahboubeh Asgari-Targhi	Magneto-thermal Reconnection Processes in Solar Coronal Loops
P1.034	Dylan Brennan	Resistive plasma-resistive wall mode stability limits in rotation and beta with two fluid layers and energetic ions
P1.035	Huishan Cai	Influence of toroidal rotation on magnetic islands in tokamak
P1.036	George Miloshevich	Inversion of energy cascade in a magnetofluid model due to the effect of ion sound Larmor radius scales
P1.037	Wrick Sengupta	Nonsymmetric 3D vacuum magnetic fields with surfaces