Poster Session III ~ 10:00 to 12:00pm ~ Tuesday, April 16, 2019 Room Location: Forrestal Ballroom Salons E-H

P3.001 Alexander Schekochihin Alexander Schekochihin P3.002 Michael Hardman Pasmas: a fusion-astro synergy success story Cross seale interaction michanisms in coupled electron and ion scale turbulence Role of stable modes in the saturation and transport properties of shear flow turbulence Cooling the target plasma to a sub-eV detachment temperature using thermionic electrons P3.005 Alessandro Geraldini Kinetic model of grazing-angle magnetic presheaths Gyrokinetic continuum simulations of plasma turbulence in the Texas Helimak Gyrokinetic continuum simulations of plasma turbulence in the Texas Helimak Gyrokinetic continuum Gyrokinetic Turbulence Simulations in the Tokamak Edge Nonlinear model-Fokker-Planck collisions in full-f discontinuous Galerkin kinetics Gyrokinetic turbulence simulations of an NSTX SOL with model geometry, and exponential reconstructions and positivity for discontinuous Galerkin algorithms Application of Gkeyll to laser-driven plasmas and astrophysical scenarios: Saturation of Weibel-type instabilities P3.011 James Juno Turbulent Dissipation in a Simple Vlasov system A Fully Kinetic Numerical Study of Turbulence in the Swarthmore Spheromak Experiment On the Forced Motion of Field Lines in a Resistive Plasma P3.014 Ian Abel On the Forced Motion of Field Lines in a Resistive Plasma P3.015 Rahul Gaur Gyrokinetic and Ballooning analysis of high beta PIER equilibria P3.016 Wendell Horton RFC Confinement With and Without Toroidal Magnetic Field Current/Interchange Tearing Modes with Hall and FLR across SX into the SOL Plasma Fully Kinter Numerical Study of Turbulence in the Swarthmore P3.020 Andrei Smolyakov On magnetic component of Geodesic Acoustic Modes Federico Halpern The anti-symmetry approach to plasma fluid simulations Full wave modeling of SOL density fluctuations effects on LH and helicon waves P3.022 Geodesic Palpern The anti-symmetry approach to plasma fluid simulations Full wave modeling of SOL den	Poster #	Author	Title
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P3.002 Michael Hardman Scale turbulence Role of stable modes in the saturation and transport properties of shear flow turbulence Cooling the target plasma to a sub-eV detachment temperature using thermionic electrons Valentin Skoutnev Cooling the target plasma to a sub-eV detachment temperature using thermionic electrons Cooling the target plasma to a sub-eV detachment temperature using thermionic electrons Cooling the target plasma to a sub-eV detachment temperature using thermionic electrons Cooling the target plasma to a sub-eV detachment temperature using thermionic electrons Cooling the target plasma to a sub-eV detachment temperature using thermionic electrons Cooling the target plasma to a sub-eV detachment temperature using the target plasma to a sub-eV detachment temperature using the target plasma to a sub-eV detachment temperature using the target plasma to a sub-eV detachment temperature using the target plasma to a sub-eV detachment temperature using the target plasma turbulence in the Tokanak Edge Continuum simulations of plasma turbulence in the Tokanak Edge Nonlinear model-Fokker-Planck collisions in desenting the Tokanak Edge Nonlinear model-Fokker-Planck collisions in full-f discontinuous Galerkin kinetics Gyrokinetic turbulence simulations of an NSTX SOL with model geometry, and exponential reconstructions and positivity for discontinuous Galerkin largorithms Application of Gkeyll to laser-driven plasmas and astrophysical scenarios: Saturation of Weibel-type instabilities Application of Gkeyll to laser-driven plasmas and astrophysical scenarios: Saturation of Weibel-type instabilities Application of Gkeyll to laser-driven plasmas and astrophysical scenarios: Saturation of Weibel-type instabilities Application of Gkeyll to laser-driven plasmas and astrophysical scenarios: Saturation of Weibel-type instabilities Application of Gkeyll to laser-driven plasmas and astrophysical scenarios: Saturation of Weibel-type instabilities Application of Gkeyll turb	P3.001	Alexander Schekochihin	
Role of stable modes in the saturation and transport properties of shear flow turbulence	D2 002	Mark and Handara	*
P3.003 Adrian Fraser shear flow turbulence P3.004 Mike Campanell Cooling the target plasma to a sub-eV detachment temperature using thermionic electrons R5.005 Alessandro Geraldini Kinetic model of grazing-angle magnetic presheaths Gyrokinetic continuum simulations of plasma turbulence in the Texas Helimak P3.006 Tess Bernard Texas Helimak P3.007 Ammar Hakim (Gyro)kinetic simulations of turbulence, shocks and sheaths Electromagnetic Continuum Gyrokinetic Turbulence Simulations in the Tokamak Edge P3.008 Noah Mandell Nonlinear model-Fokker-Planck collisions in full-f discontinuous Galerkin kinetics Gyrokinetic turbulence simulations of an NSTX SOL with model geometry, and exponential reconstructions and positivity for discontinuous Galerkin algorithms P3.010 Gregory Hammett Application of Gkeyll to laser-driven plasmas and astrophysical scenarios: Saturation of Weibel-type instabilities P3.011 Valentin Skoutnev Scenarios: Saturation of Weibel-type instabilities P3.012 James Juno Turbulent Dissipation in a Simple Vlasov system A Fully Kinetic Numerical Study of Turbulence in the Swarthmore Spheromak Experiment P3.014 Ian Abel On the Forced Motion of Field Lines in a Resistive Plasma P3.015 Rahul Gaur Gyrokinetic and Ballooning analysis of high beta ITER equilibria P3.016 Wendell Horton RFC Confinement With and Without Toroidal Magnetic Field Current/Interchange Tearing Modes with Hall and FLR across SX into the SOL Plasma P3.017 Hideaki Miura The Drift-Mirror Plasma Instability in Earth's inner Magnetosphere Wave-kinetic calculation of the tertiary instability and the Dimits shift P3.020 Andrei Smolyakov On magnetic component of Geodesic Acoustic Modes P3.021 Federico Halpern The anti-symmetry approach to plasma fluid simulations Full wave modeling of SOL density fluctuations effects on LH and helicon waves An un-fitted adaptive hybridizable discontinuous Galerkin solver for axisymmetric plasma equilibrium P3.023 Tonatiuh Sanchez-Vizuet For axisymmetric plasma equilibrium	P3.002	Michael Hardman	
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P3.004 Mike Campanell using thermionic electrons			
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P3.006 Tess Bernard Texas Helimak P3.007 Ammar Hakim (Gyro)kinetic simulations of turbulence, shocks and sheaths Electromagnetic Continuum Gyrokinetic Turbulence Simulations in the Tokamak Edge Nonlinear model-Fokker-Planck collisions in full-f discontinuous Galerkin kinetics Monlinear model-Fokker-Planck collisions in full-f discontinuous Galerkin kinetics Gyrokinetic turbulence simulations of an NSTX SOL with model geometry, and exponential reconstructions and positivity for discontinuous Galerkin algorithms Application of Gkeyll to laser-driven plasmas and astrophysical scenarios: Saturation of Weibel-type instabilities P3.012 James Juno Turbulent Dissipation in a Simple Vlasov system A Fully Kinetic Numerical Study of Turbulence in the Swarthmore Spheromak Experiment P3.013 Jason TenBarge Spheromak Experiment P3.014 Ian Abel On the Forced Motion of Field Lines in a Resistive Plasma P3.015 Rahul Gaur Gyrokinetic and Ballooning analysis of high beta ITER equilibria RFC Confinement With and Without Toroidal Magnetic Field Current/Interchange Tearing Modes with Hall and FLR across SX into the SOL Plasma P3.018 Rualdo Soto-Chavez The Drift-Mirror Plasma Instability in Earth's inner Magnetosphere Wave-kinetic calculation of the tertiary instability and the Dimits shift P3.020 Andrei Smolyakov On magnetic component of Geodesic Acoustic Modes P3.021 Federico Halpern The anti-symmetry approach to plasma fluid simulations Full wave modeling of SOL density fluctuations effects on LH and helicon waves An un-fitted adaptive hybridizable discontinuous Galerkin solver for axisymmetric plasma equilibrium P3.024 Ge Dong Nonlinear dynamics of the Kinetic Ballooning Modes Role of geometry on nonlinear energy transfer in optimized	P3.005	Alessandro Geraldini	Kinetic model of grazing-angle magnetic presheaths
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Role of geometry on nonlinear energy transfer in optimized	P3.023	Tonatiuh Sanchez-Vizuet	tor axisymmetric plasma equilibrium
Role of geometry on nonlinear energy transfer in optimized	P3.024	Ge Dong	Nonlinear dynamics of the Kinetic Ballooning Modes
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	P3.025	Benjamin Faber	

Poster Session III ~ 10:00 to 12:00pm ~ Tuesday, April 16, 2019 Room Location: Forrestal Ballroom Salons E-H

P3.026	Stephen Jardin	A New Explanation of Sawtooth Phenomena in Tokamaks
		Drift wave instabilities as triggered by spontaneous parity-time
P3.027	Hong Qin	symmetry breaking
D2 020	Y 1 M 11	Energy Transfer through plasmoid reconnection in slab-geometry
P3.028	Jacob Maddox	resistive MHD computations
P3.029	Jeff Parker	Self-consistent coupling of transport with global gyrokinetic turbulence simulations
13.029	Jen Farker	
D2 020	Daniela Madalescia	Numerical study of 3D MagnetoHydroDynamics: nonlinear Alfvén
P3.030	Rupak Mukherjee	waves and recurrences Zonal flow – drift-wave interactions in two-dimensional curvature-
P3.031	Plamen Ivanov	driven fluid ITG turbulence
P3.032	Eduardo Rodriguez	Hysteresis phenomena in improved magnetic island RF heating
P3.033	Andrew Powis	Scaling of Spoke Rotation Frequency within a Penning Discharge
P3.034	Mikhail Dorf	Testing and plans for the 5D continuum gyrokinetic code COGENT
D2 025	D :	General field theory and weak Euler-Lagrange equation for
P3.035	Peifeng Fan	classical particle-field systems in plasma physics
P3.036	Rogerio Jorge	Theory of the Drift-Wave Instability at Arbitrary Collisionality
D2 027	771	On deterministic nature of intermittent geodesic acoustic mode
P3.037	Zhaoyang Liu	observed in tokamaks High-Order Accurate Minimally-Dissipative Conservative Finite
P3.038	Andre Gianesini Odu	Difference Methods for 2D+2V Vlasov Simulation
P3.039	Eric Howell	NIMROD Modeling of RMP Footprint Structures in DIII-D
13.037	Life Howell	Temperature Screening of Impurities in Stellarators and Tokamaks
P3.040	Mike Martin	Deviating from Symmetry
P3.041	Renato Gatto	Fusion Burning in Magnetically Confined Toroidal Plasmas
P3.042	Brendan Lyons	Nonlinear impurity-MHD modeling of disruption mitigation
	3	The influence of toroidicity and partially ionized atomic impurities
P3.043	Nathan Garland	on runaway electron avalanche in tokamak plasmas
		The challenges of integrated modeling for discharge prediction and
P3.044	Francesca Poli	the path to a national effort to Whole Device Model
D2 0.45	** 1 *	Advanced parallel closures using general moment equations for
P3.045	Hankyu Lee	NIMROD simulations
P3.046	Adrian Fontanilla	Heating and Ablation of High-Z Pellets in High-Temperature Plasmas
P3.046 P3.047	Jason Parisi	
r3.047	Jasuii Falisi	Toroidal and slab ETG dominance in JET pedestals BIEST: A fast high-order boundary integral solver for computing
P3.048	Dhairya Malhotra	stepped pressure equilibria in stellarators
15.010	2 min ja maniona	Ambient-field-dependence of diamagnetic flow interacting with
P3.049	Miura Hideaki	CITM
		Gyrokinetic exact linearized Landau collision operator:
P3.050	Qingjiang Pan	conservative formulation and initial implementation

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		Using the G-Transform to Gain Nonlocal Information about the
P3.051	Jeffrey Heninger	Distribution Function
		Ideal ballooning and gyrokinetic stability of an ultra-high beta
P3.052	Dylan Langone	equilibrium with the ITER shape
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