

Poster Session #2 ~ 3:00-6:00 PM ~ Thursday, February 18, 2010

Poster #	Author	Title
P2.001	Simon Anderson	The HSX Stellarator experimental program
P2.002	Christopher Cothran	Finite length Taylor double helix states
P2.003	David Ennis	New Understanding and Achievements from Independent Injector Drive Experiments on HIT-SI
P2.004	Raymond Fonck	Studies in the high-field utilization regime at near-unity aspect ratio in the Pegasus Toroidal Experiment
P2.005	Davud Gates	Overview of the PPPL Stellarator program
P2.006	Stefan Gerhardt	Progress in Developing Advanced Spherical Tokamak Scenarios in NSTX
P2.007	Tim Gray	Aspect ratio scan of CT merging in SSX
P2.008	David Hannum	Characterizing the unique current and density profiles of the Resistive Wall Machine
P2.009	Adil Hassam	Thermoelectric Rotating Torus (TROT): A Concept for Fusion
P2.010	Aaron Hossack	Observations Supporting Electron Hyper-Viscosity Current Drive in the HIT-SI Spheromak
P2.011	David Kirtley	Macron formed liner as a practical method for enabling magneto-inertial fusion
P2.012	Deepak Kumar	Mechanism of helicity injection in the Caltech spheromak experiment
P2.013	Vyacheslav Lukin	HiFi multi-fluid modeling framework – capabilities and ICC applications.
P2.014	Richard Magee	Characteristics of non-collisional ion heating in the MST RFP
P2.015	Richard Majeski	Liquid metal PFC development and the Lithium Tokamak eXperiment (LTX)
P2.016	Karsten McCollam	Oscillating Field Current Drive Experiments on MST
P2.017	Richard Milroy	Nimrod Simulations of FRC Formation and Sustainment with Rotating Magnetic Field Current Drive
P2.018	Clayton Myers	Three-Dimensional, Nonlinear MHD Simulations of Co- and Counter-Helicity Spheromak Merging Using the HYM Code
P2.019	Brian Nelson	Simulations of ICC Experiments by the Plasma Science and Innovation Center
P2.020	Roger Raman	Demonstration of Plasma Start-up in NSTX Using Transient CHI
P2.021	Aaron Redd	Helicity injection current drive in the Pegasus Toroidal Experiment
P2.022	Joshua Reusch	Varying Stochasticity in the Core of the MST RFP
P2.023	Uri Shumlak	Formation and Stabilization in the ZaP Flow Z-Pinch
P2.024	John Slough	High Flux FRC Facility for Stability, Confinement, and Sustainment Studies
P2.025	Loren Steinhauer	Challenge hybrid FRC concept
P2.026	Eve Stenson	Fast flows in arched plasma flux tubes
P2.027	Brian Victor	Looking forward: implications of the preferential current drive direction on the future of HIT-SI
P2.028	Dale Welch	Particle-in-cell modeling of field-reversed configuration formation by odd-parity rotating magnetic fields
P2.029	Simon Woodruff	Fusion Internal Combustion Engine (Fusion-ICE)
P2.030	Simon Woodruff	Pulsed Build-up and Adiabatic Compression of Spheromaks
P2.031	Nathan Mattor	Confinement Scaling for the Adiabatic Compression of a Spheromak
P2.032	Jennifer Baerny	Diagnostics for lab and astrophysical plasmas
P2.033	Donald Stoulil	Commercialization plan for a fusion energy start-up

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P2.034	Paul Bellan	Investigation into reducing the mass influx associated with helicity injection
P2.035	Auna Moser	Observations of magnetic field amplification when a magnetized plasma jet impacts a target cloud
P2.036	Cihan Akcay	NIMROD simulation of the HIT-SI experiment
P2.037	Chris Hansen	3-D Equilibria with Spatially Variable Lambda in HIT-SI
P2.038	Nathaniel Hicks	Prospects for Non-invasive Internal Magnetic Field Measurements via Polarimetry on the HIT-SI Spheromak
P2.039	Jonathan Wrobel	Using Edge Magnetic Activity in the HIT-SI Experiment to Explore Internal Magnetic Structure
P2.040	Laura Berzak	Understanding Three-dimensional Contributions to Eddy Currents and Their Effect on Start-up
P2.041	Daniel Lundberg	Molecular Cluster Injection for Short-Pulse, High-Density Fueling on the Lithium Tokamak eXperiment
P2.042	David Farley	Development of an Inexpensive, Non-Invasive Magnetic Field Diagnostic using CPT in Hydrogen Plasmas
P2.043	David Farley	Electron-Impact Selection Rules for Rotational Temperature Measurement of Molecular Hydrogen in the PFRC
P2.044	Abraham Fetterman	Alpha channeling using stationary waves in a centrifugal mirror
P2.045	Tom Intrator	Physics demonstration of Magnetized Target Fusion and future directions
P2.046	Jeong-Young Ji	The importance of ion-electron collisions in ion transport
P2.047	Charlson Kim	Hybrid Kinetic-MHD Studies of ICC Devices using Lorentz PIC in Finite Elements
P2.048	Weston Lowrie	Multi-block capability in HiFi and its application to modeling the ZaP z-pinch experiment
P2.049	George Marklin	Improvements to the PSI-TET Codes
P2.050	Eric Meier	Two-fluid Plasma-Neutral Model Development and Application
P2.051	Peter Norgaard	Numerical simulation of coaxial magnetoplasmadynamic acceleration for space propulsion using the HiFi spectral element code with axisymmetric geometries.
P2.052	Milan Kalal	Recent results of the SBS PCM approach to self-navigation of lasers on direct drive IFE pellets