

Wednesday March 30

Understanding the SOL Heat Flux Width

Silverton 2-3

Ilon Joseph presiding

- 13:30 CS Chang Gyrokinetic Turbulent-Neoclassical Projection of the Divertor Heat-Flux Width from Present Tokamaks to ITER
- 13:46 Tengfei Tang Towards understanding the role of turbulence on scaling of divertor heat flux profile widths on C-Mod and DIII-D
- 14:02 Travis Gray Effect of Collisionality and Detachment Onset on the Scrape-off Layer Heat Flux Profiles in NSTX
- 14:18 Discussion

Energetic Particles/Turbulence/Modeling II

Cripple Creek 1

Zhihong Lin presiding

- 13:30 Ron Waltz A critical gradient model for energetic particle transport from Alfvén eigenmodes: GYRO verification, DIII-D validation, and ITER projection
- 13:50 Mario Podesta Inferring AE amplitudes from wave/particles power balance in a reduced EP transport model
- 14:10 T. Luda di Cortemiglia Accelerated tokamak transport simulations via Neural-Network Based Regression of TGLF Turbulent Energy, Particle and Momentum Fluxes

Multi-channel Integration

Silverton 2-3

John Rice presiding

- 15:00 Walter Guttenfelder Analysis and prediction of momentum pinch in spherical tokamaks
- 15:16 Colin Chrystal Scaling of Momentum Transport and Intrinsic Torque with Normalized Gyroradius in DIII-D
- 15:32 Sterling Smith Validation of the new (APS15) TGLF saturation model with L-mode electron stiffness experiments on DIII-D
- 15:48 Saeid Houshmandyar Correlation Between Plasma Rotation and Electron Temperature Gradient Scale Length in LOC/SOC Transition at Alcator C-Mod

Thursday March 31

Plan/Design/Predict Working Group

Cripple Creek 1

Gary Staebler presiding

13:30 Phil Snyder Results and Lessons Learned from Experiments to Test Pre-Experiment EPED Predictions

13:50 Anne White Using predictions from gyrokinetic simulations to guide design of experiments in tokamaks and stellarators

Understanding the SOL Heat Flux Width Working Group

Silverton 1

Ilon Joseph presiding

13:30

3-D/Magnetic Islands

Silverton 2-3

Zhihong Lin presiding

15:00 Choongki Sung Study of turbulence changes associated with ELM suppression by RMP in DIII-D

15:15 Paul Terry Thermal Transport Control by Magnetic Shear of Core Island Structure

15:30 Zhihong Lin Gyrokinetic simulations of 3D RMP effects on DIII-D edge turbulence

15:45 Laszlo Bardoczi Interaction of Neoclassical Tearing Modes, Turbulence, and Thermal Transport in the DIII-D Tokamak

Friday April 1

Turbulence/Neo-Classical/MHD Integration

Silverton 2-3

Phil Snyder presiding

9:00 James Duff Experimental Evidence for Density-gradient-driven Trapped-electron Mode in Improved Confinement RFP Plasmas

9:16 Chris McDevitt Turbulent Current Drive Mechanisms

9:32 Discussion

Multi-scale Integration

Silverton 2-3

Nathan Howard presiding

10:30 Arash Ashourvan

On the Structure of the Zonal Shear Layer Field and its Implication for Multi-scale Interactions

10:50 Juan Ruiz Ruiz

Stabilization of Electron-Scale Turbulence by Electron Density Gradient in NSTX

11:10 Discussion