

Additional UCI GPS publications and talks

- **Publications**

Statistical analysis of fluctuations and noise-driven transport in particle-in-cell simulations of plasma turbulence, I. Holod and Z. Lin, Phys. Plasmas **14**, 032306 (2007).
Electromagnetic global gyrokinetic simulation of shear Alfvén wave dynamics in tokamak plasmas, Y. Nishimura, Z. Lin, and W. X. Wang, Phys. Plasmas **14**, 042503 (2007).
Nonlinear equilibria, stability and generation of zonal structures in toroidal plasma, L. Chen, F. Zonca, Nuclear Fusion **47**, 886 (2007).
Full torus electromagnetic gyrokinetic particle simulations with kinetic electrons, Y. Nishimura, Z. Lin, and L. Chen, Commun. Comput. Phys. **4**, 2008, in press.

- **Talks**

Lin, Z., “*Nonlinear dynamics of ETG and CTEM turbulence and their interaction with zonal flows*”, invited talk, 34th European Physical Society Conference on Plasma Physics, Warsaw, Poland, 2007.

Lin, Z., “*Turbulent transport via wave-particle decorrelation in collisionless plasmas*”, invited talk, 49th Annual Meeting of American Physical Society, Division of Plasma Physics, Orlando, 2007.

Lin, Z., “*Turbulent transport via wave-particle decorrelation in collisionless plasmas*”, Joint U.S.-European Transport Task Force Workshop, San Diego, 2007.

Nishimura, Y., “*Alfvén Continuum and Toroidal Gap Generation in Global Electromagnetic Gyrokinetic Simulations*”, Joint U.S.-European Transport Task Force Workshop, San Diego, 2007.

Holod, I., “*Discrete particle noise in particle-in-cell simulations of plasma turbulence*”, Joint U.S.-European Transport Task Force Workshop, San Diego, 2007.

Xiao, Y., “*Gyrokinetic Simulation of Trapped Electron Mode in Tokamak Edge Plasmas*”, Joint U.S.-European Transport Task Force Workshop, San Diego, 2007.

Lin, Z., “*Global GTC simulation of ETG turbulence*”, US-Japan Joint Institute of Fusion Theory Workshop, San Diego, 2007.

Nishimura, Y., “*Electromagnetic global gyrokinetic simulation of tokamak plasmas*”, US-Japan Joint Institute of Fusion Theory Workshop, San Diego, 2007.

Nishimura, Y., “*Shear Alfvén wave dynamics in gyrokinetic tokamak plasmas*”, IAEA TCM on Theory of Plasma Instability, York, UK, 2007.

Lin, Z., “*Turbulent transport in collisionless plasmas: eddy mixing or wave-particle decorrelation?*”, Theory Festival, Aix-en-Provence, France, 2007.

Nishimura, Y., “*Numerical properties of electromagnetic gyrokinetic particle simulations in a global tokamak geometry*”, 20th International Conference on Numerical Simulation of Plasmas, Austin, 2007.

Holod, I., “*Discrete particle noise in gyrokinetic particle-in-cell simulations of plasma turbulence*”, 20th International Conference on Numerical Simulation of Plasmas, Austin, 2007.

Xiao, Y., “*Short Wavelength Trapped Electron Mode*”, 20th International Conference on Numerical Simulation of Plasmas, Austin, 2007.

Lin, Z., “*Fusion Research on the Cray XT*”, Cray Technical Workshop, San Francisco, 2008.

Lin, Z., “*GTC simulation of turbulence and transport in tokamak plasmas*” Transport Task Force Workshop, Boulder, 2008.

Nishimura, Y., “*GTC full torus electromagnetic gyrokinetic particle simulations with kinetic electrons*”, Transport Task Force Workshop, Boulder, 2008.

Holod, I., “*Gyrokinetic particle simulations of parallel momentum transport in tokamak*”, Transport Task Force Workshop, Boulder, 2008.

Xiao, Y., “*CTEM Turbulence and Transport Dynamics*”, Transport Task Force Workshop, Boulder, 2008.