Program

The program consists of 3 Invited Review presentations, 12 Invited Talk presentations selected out of 50 submissions, and Poster presentations. The total number of presentations is 154.

The Review and Invited talks will be held in Warren Weaver Hall, Room 109. The Poster Sessions will be held in a different building, the Kimmel Center for University Life, Rosenthal Pavilion, 10th Floor.

Saturday, March 14
8:30am – 6:00pm
NIMROD Code Development Meeting (Warren Weaver Hall, Room 102)

Sunday, March 15
8:30am – 6:00pm
CEMM Meeting (Warren Weaver Hall, Room 102)

5:00pm – 7:00pm
Sherwood Reception / Registration (Warren Weaver Hall, Room 1301)

Monday, March 16
8:15am – 8:30am (Warren Weaver Hall, Room 109)
Welcome, Announcements — Antoine Cerfon, NYU
8:30am – 10:00am, Chair: Antoine Cerfon, NYU
8:30am – 9:30am
Dmitri Ryutov, Lawrence Livermore National Laboratory — Divertor theory: plasma transport in complex geometries
9:30am – 10:00am
Heinke Frerichs, University of Wisconsin — Three-dimensional edge plasma and neutral gas modeling with the EMC3-EIRENE code on the example of RMP application in tokamaks - status and development plans

10:00am – 10:15am Break: Coffee/Tea Service (Rosenthal Pavilion, 10th Floor)

10:15am – 12:15pm Poster Session I (Rosenthal Pavilion, 10th Floor)

12:15pm – 1:45pm Lunch (on your own)

1:45pm – 3:15pm, Chair: Eric Held, Utah State University
1:45pm – 2:15pm
Richard Fitzpatrick, University of Texas — Phase-locking of multi-helicity Neoclassical Tearing Modes in tokamak plasmas
2:15pm – 2:45pm
Dustin Fisher, Dartmouth College — 3D Two-fluid Braginski simulations of the Large Plasma Device
2:45pm – 3:15pm
Magali Muraglia, Aix-Marseille University, France — Interchange turbulence driven NTM

Tuesday, March 17
8:15am – 8:30am (Warren Weaver Hall, Room 109)
Announcements — Antoine Cerfon, NYU
8:30am – 10:00am, Chair: Michael Barnes, University of Oxford, UK

8:30am – 9:30am

Alexander Schekochihin, University of Oxford, UK — Phase mixing vs. turbulence in a drift-kinetic plasma

9:30am – 10:00am

Matt Landreman, University of Maryland — Universal instability, non-modal amplification, and subcritical turbulence

10:00am – 10:15am Break: Coffee/Tea Service (Rosenthal Pavilion, 10th Floor)

10:15am – 12:15pm Poster Session II (Rosenthal Pavilion, 10th Floor)

12:15pm – 1:45pm Lunch (on your own)

1:45pm – 3:45pm Poster Session III (Rosenthal Pavilion, 10th Floor)

4:00pm – 5:30pm, Chair: Andrew Cole, Columbia University

4:00pm – 4:30pm

Raul Sanchez, Universidad Carlos III de Madrid, Spain — Investigation of kinetic dynamos driven by non-Gaussian, non-Markovian velocity fluctuations using meshless, Lagrangian numerical schemes

4:30pm – 5:00pm

Joaquim Loizu, Max-Planck/Princeton Center for Plasma Physics — Computation of singular currents at rational surfaces in non-axisymmetric MHD equilibria

5:00pm – 5:30pm

Josefine Proll, Max-Planck/Princeton Center for Plasma Physics — TEM turbulence in stellarators - its simulation and its optimization

6:30pm – 8:30pm Reception / Student Poster Awards (Warren Weaver Hall, Room 1301/1314)

Wednesday, March 18

8:15am – 8:30am (Warren Weaver Hall, Room 109)

Announcements — Antoine Cerfon, NYU

8:30am – 10:00am, Chair: François Waelbroeck, University of Texas

8:30am – 9:30am

Todd Evans, General Atomics — 3D Magnetic perturbation effects on confinement during ELM control experiments

9:30am – 10:00am

Roscoe White, Princeton Plasma Physics Laboratory — Thermal island destabilization and the Greenwald limit

10:00am – 10:30am Break: Coffee/Tea Service (Warren Weaver Hall, Lobby)

10:30am – 12:00am, Chair: Greg Hammett, Princeton Plasma Physics Laboratory

10:30am – 11:00am

George Wilkie, University of Maryland — Efficient calculation of impurity transport and an improved slowing-down distribution for alpha particles

11:00am – 11:30am

Nathaniel Fisch, Princeton University — Alpha channeling and current drive with lower hybrid waves

11:30am – 12:00pm

Maurizio Ottaviani, CEA Cadarache, France — The flux coordinates independent (FCI) approach to plasma turbulence simulations