

# Brown / Boston University Dynamics & PDE Seminar

Fall 2017 Host: Boston University

**Thursday, November 30, 2017**

The Division of Applied Mathematics at Brown University and the Department of Mathematics and Statistics at Boston University hold joint seminar events on topics related to PDEs and dynamical systems, broadly construed. For more information, visit our website or contact the organizers:

<http://www.brown.edu/campus-life/events/joint-dynamics-seminar/>  
Jason Bramburger (jason\_bramburger@brown.edu) & Ryan Goh (rgoh@bu.edu)

## Location and parking information

MCS Building, Room B21  
111 Cummington Mall  
Department of Mathematics and Statistics  
Boston University  
Boston, MA 02215

Parking is available in the Warren Towers Garage located at 700 Commonwealth Avenue. Other parking information is available at:  
<http://www.bu.edu/parking/lots-locations/family-guests-and-visitor-parking/>.

## Program

- 2:00 – 2:20 Eric Cooper (Boston University)  
*Selection of quasi-stationary states in the 2d Stochastic Navier-Stokes on the symmetric and asymmetric torus*
- 2:25 – 2:45 Melissa McGuirl (Brown University)  
*A topological analysis of model sensitivity for pattern formation of zebrafish*
- 2:55 – 3:10 Eric Chang (Boston University)  
*New parameter plane structures for rational maps*
- 3:30 – 4:30 KEYNOTE: Panayotis Kevrekidis (University of Massachusetts Amherst)  
*From discrete solitons to discrete breathers and lattice traveling waves: a discussion of spectral stability and associated criteria*
- 5:00 – 5:20 Feng Xie (Shanghai Jiao Tong University)  
*Prandtl boundary layer expansion analysis for MHD equations*
- 5:25 – 5:45 Ying Zhang (Boston University)  
*A stochastic reaction-diffusion model for tethered enzymatic reactions*
- 5:55 – 6:10 Ross Parker (Brown University)  
*Stability of double pulse solution to the fifth order KdV equation, a numerical approach*
- 6:10 – Pizza

