

Brown / Boston University Dynamics & PDE Seminar

Fall 2015 Host: Boston University

November 17, 2015

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 PDE 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/>

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Location and parking information

111 Cummington Mall
Department of Mathematics and Statistics
Boston University

Most talks will be in the Hariri Center Conference room. Some talks may be in room 148. We will post signs at both locations indicating where the talks for the current session will be held.

Parking is available in the Warren Towers Garage located at 700 Commonwealth Avenue. If you have made arrangements with the organizers to obtain a parking pass, simply give your name to the garage attendant. Other parking information is available at: <http://www.bu.edu/parking/lots-locations/family-guests-and-visitor-parking/>.

Program

- 2:00 – 2:30 Theo Vo (BU)
Canard phenomena in mathematical neuroscience
- 2:30 – 3:00 Blake Barker (Brown)
Numerical bifurcation study for viscous shock waves
- 3:15 – 4:15 Walter Strauss (Brown)
How steep can a steady water wave be?
- 4:45 – 5:05 Mamikon Gulian (Brown)
Dynamics of the energy critical, focusing nonlinear Schrödinger Equation
- 5:05 – 5:25 Tommy McCauley (BU)
Computing the Maslov index from a matrix Riccati equation
- 5:25 – 5:45 Veronica Ciocanel (Brown)
*Modeling of mRNA localization in *Xenopus* (frog) egg cells*
- 5:45 – 6:05 Ying Zhang (BU)
A 2D convergent reaction diffusion master equation on unstructured mesh
- 6:15 Pizza

