Brown / BU / UMass Dynamics & PDE Seminar

Fall 2022 Host: Brown University

Friday, November 18, 2022

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

Manas Bhatnagar (mbhatnagar@umass.edu), Cole Graham (cole_graham@brown.edu), Jonathan Jaquette (jaquette@bu.edu).

**Location and parking information**

**Venue:** Barus & Holley, Room 190
184 Hope Street,
Providence, RI, 02912.

**Parking info:** Please contact Cole if you need to arrange parking nearby.

**Program**

1:00 – 1:30 **Ebru Toprak** (Yale)
*General-relativistic hydrogen and hydrogenic ions*

1:30 – 2:00 **Tim Roberts** (Brown)
*Snaking of contact defects in the Brusselator*

2:00 – 3:00 **KEYNOTE: Jonathan Touboul** (Brandeis)
*Stochastic collective behaviors in large neural networks*

3:00 – 3:30 Coffee break

3:30 – 4:00 **Hannah Pieper** (BU)
*Spectral stability via the Maslov index and validated numerics*

4:00 – 4:30 **Natasa Dragovic** (Tufts)
*The perils of political centrism*

4:30 – 5:00 **Ching-Peng Huang** (Brown)
*Riemannian interpretation of stochastic eigenvalue processes*

5:00 – 6:00 Pizza dinner