

Penn-Meiji Workshop on Mathematical Biology

Yoichiro Mori (University of Pennsylvania)
Joshua Plotkin (University of Pennsylvania)
Toshitake Kohno (Meiji University)
Toshiyuki Ogawa (Meiji University)

Thursday, Sept. 7, 2023

Houston Hall 223-Golkin Room, University of Pennsylvania

- 8:15-9:00 Light Breakfast
- 9:00-9:30 **Albane Théry**
Swimming and contamination in complex fluids
- 9:40-10:10 **Jo Kubokawa**
Pulsating Traveling Waves in the Mitchell-Schaeffer model
- 10:20-10:50 **Sarah Strikwerda**
Optimal control of fluid flows through deformable porous media
- 11:00-11:30 **Ryu Fujiwara**
Stationary problem of nonlocal reaction-diffusion equations
with an unbounded kernel
- 11:30-13:00 Catered Lunch
- 13:00-13:30 **Daniel Gomez**
Spikes and Targets with Lévy Flights
- 13:40-14:10 **Hiroataka Goto**
Social balance and characteristic structures in social networks
- 14:20-14:50 **Kanako Shibata**
Locality as a Catalyst for Consensus

David Rittenhouse Laboratories, Room 4C4, University of Pennsylvania

- 15:30-16:30 **Elliot Ginder**
Minimizing movements: extension and application to surface PDE

Louie Louie (Restaurant)

- 17:30-19:00 Dinner

Friday, Sept. 8, 2023

Houston Hall 223-Golkin Room, University of Pennsylvania

8:15-9:00 Light Breakfast

9:00-9:30 **Mari Kawakatsu**

How do stereotypes affect cooperation by indirect reciprocity?

9:40-10:10 **Keita Nakajima**

The effect of variable diffusion on propagation

10:20-10:50 **Josh McGinnis**

Macroscopic wave propagation in some disordered lattices

11:00-11:30 **Ryunosuke Mori**

Free boundary problem for the curve shortening flow with driving force
in undulating cylindrical domains

11:30-13:00 Catered Lunch

Independence Hall, Philadelphia

14:00-16:00 Tour of Independence Hall, Liberty Bell, Constitution Center