



THE HEBREW UNIVERSITY OF JERUSALEM  
ISRAEL INSTITUTE FOR ADVANCED STUDIES

# Getting Started with PDEs

September 3-9, 2015

All lectures will take place at the Israel Institute for Advanced Studies, room 130,  
on the Edmond J. Safra, Givat Ram Campus

## Organizers:

**Dan Mangoubi** (The Hebrew University of Jerusalem)

**Lenya Ryzhik** (Stanford University)

# Program

## Thursday, 3 September

- 09:00 - 09:45     Registration
- 09:45 - 10:00    Welcome and greetings
- 10:00 - 12:00    **Peter Constantin** (Princeton University)  
Introduction to Hydrodynamic PDE - I
- 12:00 - 13:30    **Lunch**  
At the Sherman Cafeteria
- 13:30 - 15:30    **Michael I. Weinstein** (Columbia University)  
Nonlinear Schrödinger Equations - I
- 15:30 - 16:00    Coffee Break
- 16:00 - 17:00    **Diego Córdoba** (ICMAT – Institute of  
Mathematical Sciences)  
Interface dynamics for incompressible flows - I
- 17:30 - 19:00    Reception

## Friday, 4 September

- 09:30 - 11:30    **Michael I. Weinstein** (Columbia University)  
Nonlinear Schrödinger Equations - II
- 11:30 - 12:00    **Light Lunch**  
At the Sherman Cafeteria

## Sunday, 6 September

- 09:30 - 11:30    **Peter Constantin** (Princeton University)  
Introduction to Hydrodynamic PDE - II
- 11:30 - 12:00    Coffee Break

- 12:00 - 13:00 **Diego Córdoba** (ICMAT – Institute of Mathematical Sciences)  
Interface dynamics for incompressible flows - II
- 13:00 - 14:30 **Lunch**  
At the Sherman Cafeteria
- 14:30 - 16:30 **Gady Kozma** (Weizmann Institute of Science)  
The Wong-Zakai theorem - I

### Monday, 7 September

- 09:00 - 11:00 **Scott N. Armstrong** (Université Paris IX Dauphine)  
Introduction to homogenization - I
- 11:00 - 11:30 Coffee Break
- 11:30 - 13:30 **Gady Kozma** (Weizmann Institute of Science)  
The Wong-Zakai theorem - II
- 13:30 - 15:00 **Lunch**  
At the Sherman Cafeteria
- 15:00 - 19:00 Tour - Old City of Jerusalem

### Tuesday, 8 September

- 09:30 - 11:30 **Scott N. Armstrong** (Université Paris IX Dauphine)  
Introduction to homogenization - II
- 11:30 - 12:00 Coffee Break
- 12:00 - 13:00 **Leonid Polterovich** (Tel Aviv University)  
PDEs in Symplectic Geometry - I
- 13:00 - 14:30 **Lunch**  
At the Sherman Cafeteria

14:30 - 16:30    **Yanir Rubinstein** (University of Maryland, College Park)  
Solutions of an equation that do not solve the equation

**Wednesday, 9 September**

09:30 - 11:30    **Leonid Polterovich** (Tel Aviv University)  
PDEs in Symplectic Geometry - II

11:30 - 12:00    Coffee Break

12:00 - 13:00    **Haim Brezis** (Rutgers University)  
TBA

13:00 - 14:30    **Lunch**  
At the Sherman Cafeteria