

# Summer School and Workshop "Recent Advances in PDEs and Fluids", August 5-18, 2013

## Schedule

### Monday, August 5

10:00-11:00am Vladimir Sverak,

11:15-12:15 Vladimir Sverak,

2:00-3:00 Tom Hou

3:15-4:15 Laurent Cohen "Extraction of tubular and tree structures in biomedical images using minimal paths and tubular models"

### Tuesday, August 6

10:00-11:00am Tom Hou,

11:15-12:15 Tom Hou,

2:00-3:00 Vladimir Sverak

3:15-4:15 Luis Silvestre "On equations with drift and diffusion"

4:30-5:30 Charles Epstein "A Complex Structure on Solutions of Maxwell's Equation, and Beltrami Fields"

### Wednesday, August 7

10:00-11:00 Vladimir Sverak,

11:15-12:15 Vladimir Sverak,

2:00-3:00 Tom Hou

3:15-4:15 Olga Turanova, Tristan Buckmaster, Michele Zelati, Adina Ciomaga

### Thursday, August 8

10:00-11:00 Benoit Perthame,

11:15-12:15 Benoit Perthame,

2:00-3:00 Tom Hou

3:15-4:30 Jessica Lin, King-Yeung Lam, Kazuo Yamazaki, Zachary Bradshaw

### Friday, August 9

10:00-11:00 Benoit Perthame,

11:15-12:15 Benoit Perthame

2:00-3:00 Koji Ohkitani "Long-time asymptotics of the non-stationary Leray equations"

3:15-4:30 Xiaoqian Xu, Xu Xiang, Cy Maor, Anne Bronzi, Alexander Lorz

**Monday, August 12**

10:00-11:00 Felix Otto,

11:15-12:15 Felix Otto,

2:00-3:00 Benoit Perthame,

3:15-4:15 Sasha Kiselev “Enhancement of biological reactions by chemotaxis”

4:30-5:30 Cheng Yu, Amani Zalzali, Mimi Dai, Miles Wheeler

**Tuesday, August 13,**

10:00-11:00 Peter Constantin,

11:15-12:15 Peter Constantin,

2:00-3:00 Felix Otto,

3:15-4:15 David Levermore, “Dispersive Navier-Stokes Gas Dynamical Systems: Formal Derivations”

4:30-5:30 Kevin Schenthal, Deniz Bilman, Hao Jia, Kyudong Choi

**Wednesday, August 14,**

10:00-11:00 Peter Constantin,

11:15-12:15 Peter Constantin,

2:00-3:00 Felix Otto,

3:15-4:15 David Levermore, “Dispersive Navier-Stokes Gas Dynamical Systems: Mathematical Theories”

4:30-5:30 Cedric Villani ”Long time dynamics in classical systems”

**Thursday, August 15,**

10:00-11:00 Peter Constantin,

11:15-12:15 Felix Otto

2:00-3:00 Vlad Vicol

3:15-4:15 Roman Shvydkoy “Analytical approach to intermittency in a fully developed turbulence”

4:30-5:30 Slim Ibrahim, Yu Gu, Vincent Martinez, Will Feldman