

Dynamics of PDEs

Surrey, January 18th -21st, 2020

Program

Saturday, January 18 Room 22AA04

- 09:00 - 09:30 Registration + Opening
- 09:30 - 10:15 A. Miranville "Cahn-Hilliard models with logarithmic nonlinear terms"
- 10:15 - 10:45 Coffee break
- 10:45 - 11:30 V. Chepyzhov "Homogenization of attractors of reaction-diffusion equations in perforated domain"
- 11:30 - 12:15 J. Slavik "Stochastic 3D primitive equations with gradient dependent noise"

- 12:15 - 14:00 Lunch

- 14:00 - 14:45 Sh. Cooper "A homogenisation theory for a general class of singular problems; asymptotics with error estimates"
- 14:45 - 15:30 B. Cheng "Singular limits and error estimates for inviscid fluid dynamics in domains of non-trivial geometry"
- 15:30 - 16:00 Coffee break

- 16:00 - 17:00 S. Zelik, Course "A brief introduction to attractors theory", Lecture 1

Sunday, January 19 Room 22AA04

- 09:30 - 10:15 N. Shamarov "Infinite dimensional self-adjointed Weyl pseudo-differential operators"
- 10:15 - 10:45 Coffee break
- 10:45 - 11:30 S. Yanchuk "Coexistence of Hamiltonian-like and dissipative dynamics in chains of coupled oscillators with skew-symmetric coupling"
- 11:30 - 12:15 C. Niche "Characterization of decay of solutions in equations with dissipation: the role of small frequencies"

- 12:15 - 14:00 Lunch

- 14:00 - 14:45 T. Pereira "Coherence resonance in influencer networks"
- 14:45 - 15:30 A. Shirikyan "Exponential mixing in terms of controllability and boundary driven Navier-Stokes equations"
- 15:30 - 16:00 Coffee break
- 16:00 - 17:00 S. Zelik, Course "A brief introduction to attractors theory", Lecture 2

- 19:00 - ... Conference dinner?

Monday, January 20
Room 39AA04

- 09:30 - 10:15 E. Titi "An algorithm for advancing slow features in fast-slow systems without scale separation - a Young measure approach"
- 10:15 - 10:45 Coffee break
- 10:45 - 11:30 V. Kalantarov "Global behavior of solutions to equations modelling the chevron pattern dynamics"
- 11:30 - 12:15 A. Kostianko "Lipschitz Mane projections and finite-dimensional reduction for complex Ginzburg-Landau equation"

- 12:15 - 14:00 Lunch

- 14:00 - 14:45 T. Fastovska "Attractors of the Bresse-von-Karman elastic system"
- 14:45 - 15:30 A. Romanov "On dynamics on an attractor of systems of nonlinear parabolic equations"
- 15:30 - 16:00 Coffee break
- 16:00 - 17:00 S. Zelik, Course "A brief introduction to attractors theory",
Lecture 3

Tuesday, January 21
Room 39AA04

- 09:30 - 10:15 A. Ilyin "Lieb-Thirring and Ladyzhenskaya inequalities on the sphere and on the torus"
- 10:15 - 10:45 Coffee break
- 10:45 - 11:30 I. Ryzhkova "Strong attractors for some fluid-structure interaction models"
- 11:30 - 12:30 S. Zelik, Course "A brief introduction to attractors theory",
Lecture 4

- 12:30 - 14:00 Lunch and goodbye party