

Probability and NonLocal PDEs: Interplay and Cross-Impact (Swansea University, 17–19 September 2018)

Monday

09:30 – 09:40

Opening remarks

09:40 – 10:30

Karsten Matthies (Bath)

Rescaled objective solutions of Fokker–Planck and Boltzmann equations

10:40 – 11:00

Coffee break

11:00 – 11:50

Mariya Ptashnyk (Heriot-Watt)

Homogenization of degenerate pseudoparabolic equations and variational inequalities

12:00 – 12:50

Marton Balazs (Bristol)

Blocking measures, hills, and hydrodynamics

13:00 – 14:30

Lunch

14:30 – 15:20

Oleksandr Kutoviy (Bielefeld)

Nonlinear perturbations of evolution systems in scales of Banach spaces

15:30 – 16:20

Carina Geldhauser (St Petersburg)

Optimizing the fractional power in a model with stochastic PDE constraints

16:30 – 16:50

Coffee break

16:50 – 17:15

Lorenzo Toniazzi (Warwick)

Caputo evolution equations with time-nonlocal initial condition

19:00

Conference dinner

Tuesday

09:30 – 10:20

Sarah Penington (Bath)

Branching Brownian motion with decay of mass and the non-local Fisher–KPP equation

10:30 – 10:50

Coffee break

10:50 – 11:40

Emeric Bouin (Paris Dauphine)

Logarithmic delays in non local Fisher–KPP problems

11:50 – 12:40

Elaine Crooks (Swansea)

Invasion speeds in a competition-diffusion model with mutation

12:50 – 13:00

Photo

13:00 – 14:30

Lunch & Posters

14:30 – 15:20

Raluca Eftimie (Dundee)

The impact of environmental stochasticity on a class of nonlocal hyperbolic models for self-organised biological aggregations

15:30 – 16:20

Pasha Tkachov (L'Aquila)

On stability of traveling wave solutions for integro-differential equations related to branching Markov processes

16:30 – 16:50

Coffee break

16:50 – 17:15

John Herman (Warwick)

Extension technique for trace processes: a stochastic approach

17:20 – 17:45

Peter Kuchling (Bielefeld)

Glauber dynamics on the cone of discrete Radon measures

Wednesday

09:30 – 10:20

Dmitri Finkelshtein (Swansea)

Stochastic dynamics of complex systems: mesoscopic description and beyond

10:30 – 10:50

Coffee break

10:50 – 11:30

Chris Lutsko (Bristol)

The Lorentz gas: going beyond the Boltzmann–Grad limit

11:40 – 12:20

Ifan Johnston (Warwick)

Heat kernel estimates for fractional evolution equations