## EPSRC Symposium Workshop on

# 9-13 September 2013 <br> Organisers: S. Grosskinsky, O. Hryniv, F. Theil 

## PROGRAMME

## All lectures will be held in Room B3:03, Mathematics Institute, University of Warwick <br> Monday 9th September <br> 08:30-09:45 Registration in Room B1:37; Coffee in the Mathematics Institute Common Room <br> 09:45-10:25 Victor Yakovenko (Maryland) Statistical mechanics of money, income, debt, and energy consumption

10:30-11:00 Coffee in the Mathematics Institute Common Room
11:00-11:40 Alan McKane (Manchester) Are there species smaller than 1 mm ?
11:45-12:25 Richard Blythe (Edinburgh) Spatiotemporally complete condensation in a nonPoissonian exclusion process
12:30-14:00 Lunch in the Mathematics Institute Common Room
14:00-14:40 Mauro Mobilia (Leeds) Coexistence and metastability in evolutionary games
14:45-15:25 Julien Taillieur (Paris 7) Revisiting the flocking transition using Active Spins
15:30-16:00 Tea in the Mathematics Institute Common Room
16:00-16:40 David Mukamel (Weizmann) Long-range correlations in driven, non-equilibrium systems 16:45-17:25 Freddy Bouchet (Lyon) Phase transitions and large deviations in geophysical fluid dynamics
18:00 Welcome drinks and Dinner in the Mathematics Institute Common Room
Tuesday 10th September
09:45-10:25 Marco Sarich (Berlin) The rebinding effect and reduced models for ligand binding processes
10:30-11:00 Coffee in the Mathematics Institute Common Room
11:00-11:40 Eric Vanden-Eijnden (NYU) A tour on the computational side of large deviation theory 11:45-12:25 Gunter M. Schütz (Jülich) Diffusion in a slowly varying potential
12:30-14:00 Lunch in the Mathematics Institute Common Room
14:00-14:40 Tobias Galla (Manchester) Stochastic processes with distributed delays: chemical Langevin equation and linear-noise approximation
14:45-15:25 Andreas Schadschneider (Cologne) Exclusive queueing process: The dynamics of waiting in line and other jamming phenomena in pedestrian dynamics
15:30-16:00 Tea in the Mathematics Institute Common Room
16:00-16:40 Cécile Appert-Rolland (Orsay) Exclusion processes and pedestrians
16:45-17:25 Satya Majumdar (Orsay) Number of Distinct and Common sites visited by N random walkers



Engineering and Physical Sciences Research Council

THE UNIVERSITY OF

For further information on events at the Mathematics Institute, see: go.warwick.ac.uk/mathsevents or contact: Mathematics Research Centre, Zeeman Building, University of Warwick, Coventry CV4 7AL, UK E-mail: mrc@maths.warwick.ac.uk Phone: +44(0)24 76528317 Fax: +44(0)24 76523548

## EPSRC Symposium Workshop on

## in Applied Sciences

## PROGRAMME (cont.)

## Wednesday 11th September

09:45-10:25 Charo del Genio (Warwick)
Epidemic spreading is always possible on regular networks
10:30-11:00 Coffee in the Mathematics Institute Common Room
11:00-11:40 Baruch Barzel (Boston) Universality in network dynamics
11:45-12:25 Ginestra Bianconi (QM London) Dynamics, entropy and information in temporal social networks
12:30-14:00 Lunch in the Mathematics Institute Common Room
14:00- Excursion to Stratford; Dinner at Dirty Duck at 17:00; RSC: Hamlet at 19:00; Transport back to campus at 22:30
Thursday 12th September
09:45-10:25 Tibor Antal (Edinburgh) Modeling cancer as a stochastic process
10:30-11:00 Coffee in the Mathematics Institute Common Room
11:00-11:40 Alexander Gorban (Leicester) Hierarchy of dominant paths in multiscale networks
11:45-12:25 Didier Sornette (Zurich) Reverse-engineering of financial markets by agent-based
models: regime shifts and breakdown of market efficiency
12:30-14:00 Lunch in the Mathematics Institute Common Room
14:00-14:40 Tiziana di Matteo (King's College) New tools in statistical mechanics to detect information in financial datasets
14:45-15:25 Tobias Kuna (Reading)
Typical behaviour of extremes of chaotic dynamical systems for general observables
15:30-16:00 Tea in the Mathematics Institute Common Room
16:00-17:00 Colloquium: Didier Sornette (Zurich) Black swans, dragons and predictions: diagnostics and forecasts for the world financial crisis
17:00 Wine and cheese buffet in the Mathematics Institute Common Room

## Friday 13th September

09:45-10:25 Malte Henkel (Nancy)
Physical ageing in systems without detailed balance
10:30-11:00 Coffee in the Mathematics Institute Common Room
11:00-11:40 Vassili Kolokoltsov (Warwick) Bose-Einstein condensation in number theory and economics
11:45-12:25 Martin Evans (Edinburgh) Speed selection in coupled Fisher waves
12:30-14:00 Lunch in the Mathematics Institute Common Room and Departure


Engineering and Physical Sciences
Research Council

For further information on events at the Mathematics Institute, see: go.warwick.ac.uk/mathsevents or contact: Mathematics Research Centre, Zeeman Building, University of Warwick, Coventry CV4 7AL, UK E-mail: mrc@maths.warwick.ac.uk Phone: +44(0)24 76528317 Fax: +44(0)24 76523548

