



2016-17 Warwick EPSRC Symposium Emerging PDE models in Socio-Economic Sciences 15-19 May 2017

Organisers: C. Eiliott (Warwick), P. Markowich (Cambridge and KAUST), M.-T. Wolfram (Warwick)

PROGRAMME

All lectures will take place in Room B3.03

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- 12:00-14:00 Registration in Room B1.37, Lunch in the Mathematics Common Room
- 14:00-14:45 Eitan Tadmor (University of Maryland and ETH Zurich)
 - Emergence and regularity of alignment-based PDE models with a commutator structure
- 14:50-15:20 Sara Merino-Aceituno (Imperial)
 - Continuum dynamics of the intention field under weakly cohesive social interaction
- 15:20-15:50 Coffee break in the Mathematics Common Room
- 15:50-16:35 Martin Burger (WWU Munster)
 - Gradient flow structures on graphs and mean-field limits
- 16:40-17:25 Yanghong Huang (Manchester)
 - Steady states of a non-local interaction model for two species with cross-diffusion
- 18:00-19:30 Welcome dinner in the Mathematics Common Room

Tuesday

- 09:30-10:15 Diogo Gomes (Kaust)
 - Stationary mean field games with congestion
- 10:20-10:50 Ewelina Zatorska (Imperial)
 - Transport of congestion in two-phase compressible/incompressible flow
- 10:50-11:10 Coffee break in the Mathematics Common Room
- 11:10-11:55 Massimo Fornasier (TU Munich)
 - Title TBC
- 12:00-12:30 Claudia Totzeck (TU Kaiserslautern)
 - Particle systems and their mean-field limits in conjunction with optimisation
- 12:30-14:00 Lunch in the Mathematics Common Room
- 14:00-14:45 Jan Haskovec (Kaust)
 - Discrete and continuum modeling of biological network formation
- 14:50-15:20 Rosemary Harris (QML)
 - Modelling the "peak-end rule" of behavioural economics: random walkers with extreme value memory
- 15:20-15:50 Coffee break in the Mathematics Common Room
- 15:50-16:35 Dejan Slepcev (Carnegie Mellon)
 - Transportation networks with fastest average commute times

Continued over

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/hone: +44(0)24 7652 8317 Fax: +44(0)24 7652 3548