

## Loughborough Applied Mathematics Seminars 2013-2014

### Semester 1

23 <sup>rd</sup> Oct	<b>Nigel Wilding</b> , Bath	Computer simulation of highly size-asymmetrical colloid mixtures
30 <sup>th</sup> Oct	<b>Andrew Hazel</b> , Manchester	Static degeneracy leads to dynamic complexity in interfacial flows
13 <sup>th</sup> Nov	<b>Michele Brun</b> , Cagliari, Italy	Dynamic behavior of slender structures. Low-frequency asymptotic models of bridges: waveguides, by-pass systems and damage propagation
20 <sup>th</sup> Nov	<b>Richard Graham</b> , Nottingham	Modelling polymer crystallisation under flow: from molecular shape to flow properties and crystallisation
4 <sup>th</sup> Dec	<b>Uwe Grimm</b> , Open University	What is aperiodic order?
8 <sup>th</sup> Jan	<b>Yury Stepanyants</b> , USQ, Australia	Surface wave transformation at the bottom step
29 <sup>th</sup> Jan, 1:30pm, W002	<b>Mark Everitt</b> , Loughborough	Quantum measurement with chaotic apparatus

### Semester 2

12 <sup>th</sup> Feb, 1:30pm, W003	<b>Mike Allen</b> , Warwick	Monte Carlo simulations of lattice polymers and peptides
12 <sup>th</sup> Mar, 1:30pm, W003	<b>Jeremy Levesley</b> , Leicester	Entropic limiters for Lattice Boltzmann
19 <sup>th</sup> Mar, 1:30pm, W003	<b>Igor Andrianov</b> , RWTH Aachen	Asymptotic Methods in Thin-Walled Structure Mechanics
26 <sup>th</sup> Mar, 1:30pm, W003	<b>Beatrice Pelloni</b> , Reading	The effect of boundary conditions on the solvability of integrable PDEs
30 <sup>th</sup> Apr, 1:30pm, W003	<b>Julia Gog</b> , Cambridge	Capturing the spread and evolution of influenza A
2 <sup>nd</sup> May, 2pm W190	<b>Mark Hoefer</b> , North Carolina	Dispersive hydrodynamics in viscous fluid conduits
7 <sup>th</sup> May, 1:30pm, W003	<b>Jim Hague</b> , Open University	Modelling of cardiovascular systems
21 <sup>st</sup> May, 1:30pm, W003	<b>Suzanne Fielding</b> , Durham	Extensional instabilities in complex fluids
28 <sup>st</sup> May, 1:30pm, W003	<b>Yair Zarmi</b> , Beer Sheva	Spatially extended particles hidden in soliton solutions of nonlinear evolution equations in more than one space dimension
10 <sup>th</sup> June, 1:00pm, W003	<b>Michael Shearer</b> , North Carolina State	Shock waves!
11 <sup>th</sup> June, 1pm, W003	<b>Vassilis Rothos</b> , Thessaloniki	Nonlinear Localization in rf-SQUID Metamaterials