

One-Day IOP meeting
Complexity and Nonlinear Phenomena in Biological Systems
20 May 2010, University of Bath

Preliminary programme

10:00	registration, welcome and coffee
10:30-11:30	Raymond Goldstein (DAMTP) Synchronization of Eukaryotic Flagella
11:20-11:40	Mike Swift (Nottingham) The collective dynamics of spheres in oscillatory fluid flows.
11:40-12:00	Paddy Royall (Bristol) Colloidal dispersions: complexity from simplicity
12:00-13:30	LUNCH
13:30-13:50	Matthew Turner (Warwick) Fibre-like protein aggregates in disease and their interaction with cell membranes
13:50-14:10	Robert Endres (Imperial) How one cell eats another: experiments and modelling elucidate early signalling events and biophysical requirements for uptake
14:10-14:30	Rainer Klages (QMUL) Anomalous dynamics of cell migration
14:30-14:50	Alexander Gorban (Leicester) Asymptotic analysis of microRNA action on the protein translation process
14:50-15:10	Mario Nicodemi (Warwick) A symmetry breaking model for X chromosome inactivation
15:10-15:40	COFFEE BREAK
15:40-16:00	Sandra Chapman (Warwick) A Fundamental Basis for Macroecological Patterns
16:00-16:20	Christel Kamp (PEI) Co-evolution of epidemic spread and transmission network topology
16:20-16:40	Joanna Bryson (Bath) Determinants of the size of social species' culture
16:40	close

The meeting is organized by the Nonlinear and Complex Physics Group of the Institute of Physics.

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