



Applied Mathematics Seminars

Autumn Term 2012

Monday 10th September, 3:00pm Prof. Tomasz Lipniacki, Institute of Fundamental Technological Research, Polish Academy of Sciences

Stochastic NF- κ B activation via autocrine TNF α signaling

Monday 17th September, 3:00pm Prof. Jacek Banasiak, University of Kwazulu-Natal

Multiple time scales in population modelling: some mathematical methods

Thursday 20th September, 2:00pm

Prof. Jie Shen, Purdue University

Some recent advances on phase-field models for multiphase complex fluids

Monday 24 September, 3:00pm

Prof. Swarn Singh, University of Delhi
(Sri Venkateswara College), India

High Order Finite Difference Methods for Hyperbolic Equations

Monday 8th October, 3:00pm

Prof. Bela Mulder, FOM Institute AMOLF

Taking directions: self-organization of cortical microtubule array in plants

Monday 15th October, 3:00pm

Dr. Maciej Swat, Biocomplexity Institute,
University of Indiana

Towards Virtual Tissues - Are Single-Cell-Based models useful at all?

Monday 22th October, 3:00pm

Prof. Alberto Gandolfi, IASI-CNR

Modelling cellular systems: from tumours to epidermis

Monday 29th October, 2:00pm

Prof. Frank Jülicher, Max Planck Institute
for the Physics of Complex Systems, Dresden, Germany

(SYSTEMS BIOLOGY SEMINAR)

Dynamic organization of epithelia

Monday 5th November, 2:00pm

Prof. Koji Ohkitani, University of Sheffield

Vortex merger and topological changes in two-dimensional turbulence

Monday 12th November, 3:00pm

Prof. Maia Angelova, Northumbria University,
Newcastle upon Tyne, UK

Models of multi-stability switches: case study the lac operon

Monday 19th November, 3:00pm Prof. Peter A. Davidson, University of Cambridge

Structure formation in rapidly rotating turbulence

Wednesday 21th November, 1:45pm Dr. Mervyn Freeman, British Antarctic Survey
*Investigations of solar-wind-magnetosphere-ionosphere complexity using the Super Dual
Auroral Radar Network*

Monday 3th December, 3:00pm Dr. Anthony J. Webster, EURATOM/CCFE
Fusion Association, Culham Science Centre, Abingdon
Edge Localised Plasma Instabilities in the Joint European Torus (JET)

Unless otherwise indicated, seminars will be held in room 1.43L in the Maths building next to the MSI complex at the top of Old Hawkhill. All interested are welcome to attend. Tea will be available at 3:00pm in the Staff Common Room. External visitors are advised to confirm arrangements with the Secretary, Mrs. Fox: Tel. (01382) 384471.

Raluca Eftimie & Mariya Ptashnyk
December 2012