Mathematical Ecology: Theory and Applications (META) Joint Research Group in the UK - LMS Scheme 3



META WORKSHOP

`Analytical and computational methods for multi-scale ecology'

UNIVERSITY OF BIRMINGHAM (UK), 18TH DECEMBER 2015

PROGRAMME

10:00–11:00 Sergei Fedotov

Non-Markovian random walks and anomalous transport: applications in biology and spatial ecology

11:00–11:20 Coffee break

11:20–11:50 Natalia Petrovskaya

Modelling patchy invasion of alien species with long-distance dispersal

11:50–12:20 Jonathan Potts

Animal movement modelling as a technique for understanding population abundance distributions

12:20–12:50 Presentations by PhD students

Helena Stage <u>Front propagation for proliferating Levy walks</u> Halil Egilmez <u>Tri-trophic plankton models revised: the role of space, food web structure and</u> <u>functional response parametrisation</u>

12:50-14:30 Lunch

14:30–15:00 Eleni Matechou

Modelling individual migration patterns using a Bayesian nonparametric approach for capturerecapture data

15:00–15:30 Axel Rossberg

The theory of competition in food webs

15:30–16:00 Presentations by PhD students

Manal Alqtani <u>The numerical integration problem in ecological monitoring</u> Yadigar Sekerči <u>Modelling plancton-oxygen dynamics under the climate change</u>

16:00–16:30 Coffee break