Mathematical Ecology: Theory and Applications (META)

Joint Research Group in the UK - LMS Scheme 3

META WORKSHOP

Mathematics behind dispersal and ecological pattern formation

UNIVERSITY OF LEICESTER (UK), 7TH MARCH 2016

PROGRAMME

10:00–11:00 **James Bullock**

Linking data and models to address real-world problems

11:00–11:20 **Coffee break**

11:20–11:50 **Michael Bonsall**

Approximating spatial domains

11:50–12:20 **Natalia Petrovskaya**

Interpretation of trap counts resulting from various insect immigration scenarios

12:20–13:00 **Presentations by PhD students**

Weam Alharbi: ***Effect of size and shape on population persistence in fragmented habitats***

Aled Morris: ***Individual variability in dispersal and invasion speed***

13:00–14:30 **Lunch**

14:30–15:00 **Colin Torney**

Connecting social information use and individual decision-making with collective animal movement

15:00–15:30 **Sergei Petrovskii**

Statistical mechanics of individual animal movement

15:30–15:40 **Break**

15:40–16:00 **Presentations by PhD students**

Edmund Barter: ***Meta-food-chains as a many-layer epidemic process***

16:00–16:30 **Coffee break**

16:30–17:30 **Vincent Jansen**

Characterising animal movement: a matter of scale