Spatial moment techniques for modelling biological processes

1410 - 1440 Ruth Baker (University of Oxford).
Title: Moment-dynamics models for cell biology processes.

1440 - 1510 Michael Plank (Canterbury University).
Title: Collective cell movement with directional bias.

1510-1540 Thomas House (University of Warwick).
Title: Low-dimensional approximation of stochastic dynamics on discrete structures.

1540-1610 coffee

1610-1640 Kieran Sharkey (University of Liverpool).
Title: Message passing and moment closure for Susceptible-Infectious-Removed (SIR) epidemic dynamics on networks.

1640-1710 Deborah Markham (University of Oxford).
Title: A simplified method for including correlations in mean-field approximations.

1710-1740 Fred Barraquand (University of Tromso).
Title: Nonlinearities in continuous-space moment equation models: possible insights from Taylor expansions.

1740-1810 Matthew Simpson (Queensland University of Technology).
Title: Distinguishing between mean-field, moment-dynamics and stochastic descriptions of birth-death-movement processes.