The First Nordic Biomathematics Days

Helsinki, 22-23 October 2019

VENUE: Unioninkatu 37, Helsinki

POSTERS will be exhibited in the lecture room. All coffee breaks are also poster sessions!

TUESDAY 22 OCTOBER

- 13.00 13.10 Opening
- 13.10 13.50 Peter Jagers: Populations from few independently reproducing individuals to continuous and deterministic flows
- 13.50 14.10 Christophe Coste: Trait Level Analysis of Multitrait Projection Matrices allows to implement kinship effects in evolutionary demography models
- 14.10 14.40 Coffee break
- 14.40 15.00 Johnny Ottesen & Morten Andersen: Mathematical model suggests competition between multiple clones as a unifying explanation for various phenomena in blood cancer
- 15.00 15.20 Rasmus Kristoffer Pedersen: Modelling hematopoietic stem cells and their interaction with the bone marrow micro-environment
- 15.20 15.40 Sonja Radosavljevic: Mathematical models of social-ecological systems
- 15.40 16.00 Coffee break
- 16.00 16.20 Claus Rueffler: Evolutionary diversification driven by competition for resources does organismal complexity matter?
- 16.20 16.40 Jörgen Ripa: The succession of ecological divergence and reproductive isolation in adaptive radiations
- 16.40 17.00 Sami Lehtinen: Coevolution of cannibalistic predators and timid prey: evolutionary cycling and branching

WEDNESDAY 23 OCTOBER

- 9.00 9.40 Susanne Ditlevsen: The why and how of randomness
- 9.40 10.00 Torbjörn Lund: Compression therapy as an inverse problem
- 10.00 10.30 Coffee break

- 10.30 10.50 Olof Leimar: Large and small worlds: learning and decision making in game theory for biology
- 10.50 11.10 Magnus Lindh: Evolution of plant economics in a water limited environment
- 11.10 11.30 Dmitry Gromov: Evolution of chronic viral invections and the effect of the population-level control
- 11.30 11.50 Kalle Parvinen: Evolution of dispersal in a spatially heterogeneous population with finite patch sizes
- 11.50 13.30 Lunch break
- 13.30 14.10 Odo Diekmann: Numerical bifurcation analysis of physiologically structured population models via pseudospectral approximation
- 14.10 14.30 Lei Niu: A case study of the four-dimensional Leslie-Gower competition model
- 14.30 15.00 Coffee break
- 15.00 15.20 Jarno Vanhatalo: Gaussian processes in population growth models
- 15.20 15.40 Aaro Salosensaari: Predictive survival analysis of human gut microbiome
- 15.40 16.00 Krzysztof Bartoszek: Formulating adaptive hypotheses in multivariate phylogenetic comparative methods

We acknowledge financial support from the Academy of Finland through its Centre of Excellence in Analysis and Dynamics Research