

Ancestral lines for (multitype) genetic models

Bielefeld University, 27-29 September 2023

lecture hall 10

Wednesday, 27.09.2023

09:30 – 09:50 : Registration

09:50 – 10:00 : Opening

10:00 – 11:00 : Emmanuel Schertzer and Zsófia Talyigás, University of Vienna

Branching systems with noisy selection.

11:00 – 11:30 : Coffee break

11:30 – 12:30 : Julie Tourniaire, IST Austria

A branching particle system as a model of pushed fronts.

12:30 – 14:00 : Lunch

14:00 – 15:00 : Loïc Chaumont, University of Angers

Extinction times of multitype continuous-state branching processes.

15:00 – 15:30 : Coffee break

15:30 – 16:30 : Florin Boenkost, University of Vienna

The genealogy of nearly critical branching processes in a varying environment.

16:30 – 17:30 : David Cheek, Harvard University

Ancestral lineages in branching processes and somatic evolution.

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Thursday, 28.09.2023

09:30 – 10:30 : Samuel Johnston, King's College London

Multitype Lambda-coalescents.

10:30 – 11:00 : Coffee break

11:00 – 12:00 : Martin Möhle, University of Tübingen

On multi-allelic Cannings models and multi-type exchangeable coalescents.

12:00 – 12:30 : Sophia-Marie Mellis, Bielefeld University

Coalescents with migration in the moderate regime.

12:30 – 14:00 : Lunch

14:00 – 15:00 : Noemi Kurt, Goethe University Frankfurt

The ancestral selection graph for a Lambda-asymmetric Moran model.

15:00 – 15:30 : Marta Dai Pra, Humboldt University Berlin

Ξ -coalescents arising from structured populations undergoing bottlenecks.

15:30 – 16:00 : Coffee break

16:00 – 17:00 : Clément Foucart, University of Paris 13

On the boundary 1 of the Λ -Wright-Fisher process with “strong” selection and its dual process.

17:00 – 17:30 : Luigi Esercito, Bielefeld University

Ancestral structures for Moran Models with general frequency-dependent selection and mutation.

19:00 – : Conference dinner at “The Bernstein”

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Friday, 29.09.2023

09:00 – 10:00 : Cristian Giardinà, University of Modena

From population genetics to statistical physics, and backward

10:00 – 11:00 : Frederic Alberti, University of Mainz

Labelled partitions in action: recombination, selection, mutation and more.

11:00 – 11:30 : Coffee break

11:30 – 12:30 : Daniel Valesin, University of Warwick

Scaling limit of an adaptive contact process.

12:30 – 14:00 : Farewell lunch