

Rigi Workshop 2015

Mathematical and Computational Modeling in Life Sciences

January 18-20, 2015, Rigi Kulm Hotel

Sunday, January 18

12:45 – 14:00 Arrival / Check-in / Registration / Installation of posters

14:00 – 14:10 Opening

14:10 – 14:30 Introduction: Christian Mazza; University of Fribourg, Switzerland
Mathematical Modeling in Life Sciences

14:30 – 15:30 Student presentations I

15:30 – 16:00 Break

16:00 – 16:45 Talk 1: Dagmar Iber; ETH Zurich, Switzerland

Pattern Formation During Development: Morphogen Gradients and Turing Pattern

16:45 – 17:30 Talk 2: Dagmar Iber; ETH Zurich, Switzerland

Patterning on Growing Domains

17:30 – 19:00 Problem session

19:00 – 20:30 Dinner

20:30 – 22:00 Poster session I

Monday, January 19

08:00 – 08:45 Breakfast

08:45 – 09:30 Talk 3: Louis-Félix Bersier; University of Fribourg, Switzerland

Food Webs in an ecological environment

09:30 – 10:15 Talk 4: Louis-Félix Bersier; University of Fribourg, Switzerland

Food Webs in an ecological environment

10:15 – 10:45 Break

10:45 – 11:45 Student presentations II

11:45 – 13:00 Lunch

13:00 – 15:30 Free Time

15:30 – 16:30 Problem session

16:30 – 17:15 Talk 5: Oliver Ebenhöf; University of Düsseldorf, Germany

Differential equation-based models of metabolic networks

17:15 – 18:00 Talk 6: Oliver Ebenhöf; University of Düsseldorf, Germany

Constraint-based models of metabolic networks

18:00 – 19:00 Poster session II

19:00 – 20:30 Dinner

20:30 – 22:00 Problem session

Tuesday, January 20

08:00 – 09:00 Breakfast / Check out

09:00 – 09:45 Talk 7: Rudolf Rohr; University of Fribourg, Switzerland

Food Webs in an ecological environment

09:45 – 10:30 Talk 8: Christian Mazza; University of Fribourg, Switzerland

Time-Continuous Markov Chains with Illustrations From System Biology

10:30 – 11:00 Break

11:00 – 11:15 Problem session: Wrap up

11:15 – 12:15 Group Reports

12:15 – 13:30 Lunch

13:30 – 14:30 Group Reports

14:30 – 15:00 Closing Remarks and Awards Presentation

15:00 Conference closure and departures