Rigi-Workshop, where disciplines meet

Mathematical and Computational Modeling in Life Sciences

January 18 – 20, 2015, Rigi-Kulm

- Engage in the promising research area at the interface between biology and mathematics
- Discuss cutting-edge results from neighbouring disciplines
- Meet people that can boost your own research
- Present your own research

Invited speakers:

Dagmar Iber, Department of Biosystems Science and Engineering, ETH Zurich Pattern Formation during Development: Morphogen Gradients and Turing Pattern Patterning on Growing Domains

Christian Mazza, Department of Mathematics, University of Fribourg Basic notions of time-continuous Markov chains with illustrations from systems biology (signalling and metabolic pathways, chemical reaction networks...)

Oliver Ebenhöh, University of Düsseldorf

Differential equation-based dynamic models of photosynthesis and metabolism Constraint-based models of metabolic networks

Louis-Félix Bersier and Rudolf Rohr, Department of Biology, University of Fribourg Food Webs in an ecological environment Stability of complex ecosystems

This 3-day course is held in English.

PhD students from all Swiss institutions of Higher Learning are most strongly encouraged to apply. Postdoctoral applications are also considered. Applicants are asked to submit a research title/abstract and a short letter of motivation for attending before September 30, 2014. The organizing committee will select 40 of the most outstanding applicants to participate in this workshop.

Organizer: Dr. Christian Mazza (Department of Mathematics, University of Fribourg), Jean-David Rochaix (Department of Molecular Biology, University of Geneva)

For further information and registration: http://biologie.scnat.ch/rigi-workshop

Presented by the Platforms Biology and Mathemathics, Astronomy and Physics (MAP) of



Swiss Academy of Sciences Akademie der Naturwissenschaften Accademia di scienze naturali Académie des sciences naturelles

