

International Centre for Theoretical Physics South American Institute for Fundamental Research



III Southern-Summer School on Mathematical Biology

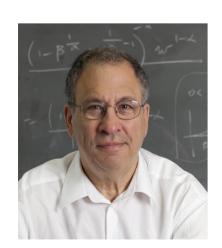
February 3 to 15, 2014 Instituto de Física Teórica - UNESP - São Paulo, Brazil

This school is aimed at graduate students and outstanding undergraduate students in Physics, Mathematics, Ecology and Epidemiology, with at least a basic knowledge of calculus and differential equations. The first week will be a basic course on Population Biology which is strongly based on modeling exercises. The second week will consist of three advanced courses on up-to-date topics in ecology and epidemiology and a series of three seminars by a distinguished lecturer. It is possible to apply for participation for either one or two weeks. Webpages for previous editions of the school are www.ictp-saifr.org/mathbio and www.ictp-saifr.org/mathbio2.

There is no registration fee and limited funds are available for travel and local expenses.

Lecturers:

Roberto Kraenkel (IFT-UNESP, Brazil) - Introduction to Population Biology
Robert Smith? (Univ. Ottawa, Canada) - Mathematical Modeling of Infectious Diseases
Otso Ovaskainen (Univ. Helsinki, Finland) - Spatial Ecology and Evolution: Integrating Theory and Data
François Massol (CNRS, Montpellier, France) - Topics in Evolutionary Dynamics



Distinguished Lecturer:

Prof. Simon Levin (Princeton Univ., USA)

Challenges in Mathematical Ecology (Feb. 13 - 15)

Lecture 1: Scaling and Collective Phenomena

Lecture 2: Sustainability Science Lecture 3: Infectious Diseases

Organizers: M. Clerc (Santiago), R. Kraenkel (São Paulo), P.I. Prado (São Paulo)



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More information and the online application form are on the webpage www.ictp-saifr.org/mathbio3

The application deadline is December 7, 2013.