NIMBioS

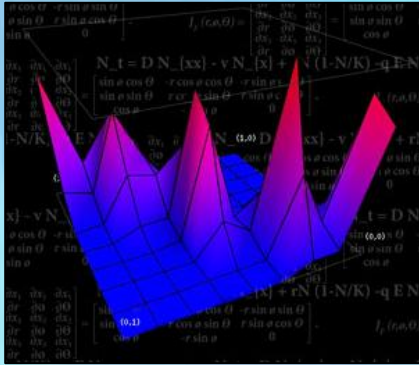**National Institute for Mathematical
and Biological Synthesis**

Parameter Estimation for Dynamic Biological Models
A NIMBioS Tutorial

May 19-21, 2014
NIMBioS at the Univ. of Tennessee, Knoxville

This tutorial is for biologists interested in doing statistics with more complex non-linear models of their data and for mathematicians interested in learning how to apply their modeling skills to the unique demands of real dynamic biological data. Methods for parameter estimation that will be taught include maximum likelihood and ordinary least squares. Additional tools of model identifiability and sensitivity analysis will be covered. Through a mixture of introductory instruction and hands-on computer-based learning, participants will learn software and tools they can use for biological data. Basic understanding of simple models with differential equations is a prerequisite.

Participation in the tutorial is by application only. Individuals with a strong interest in the topic, including post-docs and graduate students, are encouraged to apply, and successful applicants will be notified within two weeks of the application deadline. If needed, applicants may request travel and lodging support.

<u>**Application deadline: January 31, 2014**</u>

For more information about the tutorial and a link to the online application form, go to
http://www.nimbios.org/tutorials/TT_data.html

The National Institute for Mathematical and Biological Synthesis (NIMBioS) brings together researchers from around the world to collaborate across disciplinary boundaries to investigate solutions to basic and applied problems in the life sciences. NIMBioS is sponsored by the National Science Foundation, the U.S. Department of Homeland Security, and the U.S. Department of Agriculture with additional support from The University of Tennessee, Knoxville.

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