



# NIMBioS

National Institute for Mathematical  
and Biological Synthesis



## Information and Entropy *A NIMBioS Investigative Workshop*

April 8-10, 2015

NIMBioS at the Univ. of Tennessee, Knoxville

Information theory and entropy methods are becoming powerful tools in biology, from the level of individual cells, to whole ecosystems, to experimental design, model-building, and the measurement of biodiversity. This investigative workshop aims to synthesize different ways of applying these concepts to help systematize and unify work in biological systems. The principle of maximum entropy production has emerged as a fascinating yet controversial approach to predicting the behavior of biological systems, from individual organisms to whole ecosystems. This investigative workshop will bring together top researchers from diverse fields to share insights and methods and address some long-standing conceptual problems.

Participation in the workshop is by application only. Individuals with a strong interest in the topic are encouraged to apply, and successful applicants will be notified within two weeks of the application deadline. If needed, financial support for travel, meals, and lodging is available for workshop attendees.

### **Application deadline: November 12, 2014**

For more information about the workshop and a link to the online application form, go to [http://www.nimbios.org/workshops/WS\\_entropy](http://www.nimbios.org/workshops/WS_entropy)

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*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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