



## Institute colloquium

# The Institute Colloquium: Why the life sciences are different

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Princeton University

Host:

Just as physics speaks the language of mathematics, the life sciences speak the language of algorithms. The difference lies in the high descriptive complexity of the systems commonly found in social and biological organisms. While history plays a minor role in physics, it is the distinguishing feature of the living world. Algorithms provide not only the expressivity needed to model complex living systems but also the analytical tools for their analyses. This (self-contained) talk will discuss the power of "natural algorithms" through the lens of "influence systems," a broad family of high-dimensional dynamical systems for which algorithmic tools can do what differential equations cannot.

**Monday, October 28, 2013 04:30pm - 05:30pm**

Raiffeisen Lecture Hall, Central Building



This invitation is valid as a ticket for the ISTA Shuttle from and to Heiligenstadt Station. Please find a schedule of the ISTA Shuttle on our webpage: <https://ista.ac.at/en/campus/how-to-get-here/> The ISTA Shuttle bus is marked ISTA Shuttle (#142) and has the Institute Logo printed on the side.