



## Institute colloquium

# The Institute Colloquium: The visual cortex as a complex dynamical system

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Host:

Trained as a mathematician, in the area of nonlinear dynamical systems in particular, I have been fascinated by the most intriguing dynamical system of all, the brain. In this talk, I will report on some ongoing work in which my co-authors and I seek to model the monkey visual cortex, which is very similar to our own, as a large and complex dynamical system. I will focus on the primary visual cortex (V1), where the first stage of visual information processing begins. I will discuss the anatomical facts gleaned from biology, how they were used to build a mathematical model, the experimental data used for validation, the analysis of dynamical mechanisms, and finally, how this modeling work has shed light on some basic issues in visual neuroscience.

**Monday, May 23, 2016 12:45pm - 01:45pm**

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.