



## Institute colloquium

# Quantum dynamics of systems featuring long sequences of events

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**Host: Laszlo Erdős**

The purpose of this lecture is to explain how, in quantum mechanics, interesting information about a physical system can be reconstructed from long streams of data concerning primitive events featured by the system.

Examples of experiments on concrete systems, such as experiments measuring the number of photons trapped in a cavity, conducted at the Ecole Normale Supérieure in Paris, will be considered. A brief sketch of a new approach to understanding the appearance of particle tracks - "Mott tracks" - in suitably chosen detectors will be presented.

The lecture will end with remarks on the meaning of events and on the time evolution of states, as described by the "ETH approach to Quantum Mechanics".

**Monday, April 23, 2018 04:00pm - 05:00pm**

IST Austria Campus Raiffeisen Lecture Hall, Central Building



This invitation is valid as a ticket for the IST Shuttle from and to Heiligenstadt Station. Please find a schedule of the IST Shuttle on our webpage: [http://ist.ac.at/fileadmin/user\\_upload/pdfs/IST\\_shuttle\\_bus.pdf](http://ist.ac.at/fileadmin/user_upload/pdfs/IST_shuttle_bus.pdf) The IST Shuttle bus is marked IST Shuttle (#142) and has the Institute Logo printed on the side.