



Mathematics and CS Seminar

Deterministic walks

Giorgio Cipolloni

IST Austria

Host: Laszlo Erdős

An important problem in physics is the study of the transport for locally conserved quantities. One typical example is a gas of interacting particles. This problem can be very difficult, hence to study it a possibility is simplify the system, preserving its deterministic nature. An efficient model for this problem is the so called "deterministic walk". In this talk I consider the case in which the local dynamics is the simplest possible and yet retains the characteristic of being chaotic, that is it displays a strong dependence from initial conditions: a piecewise smooth expanding map. In particular I discuss the limit behaviour and a mixing property of this model.

Thursday, September 28, 2017 04:00pm - 06:00pm

Big Seminar room Ground floor / Office Bldg West (I21.EG.101)



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.