



## Seminar/Talk

# Deterministic walks

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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)



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