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Department of
Mathematics

Inn'formal Probability Seminar

Maria Concetta Campailla
(Sapienza University of Rome)

"The critical density of the Stochastic Sandpile model"

Abstract:

The Stochastic Sandpile Model is an interacting particle system introduced in the physics literature to study the mechanism of self-organized criticality. This model undergoes a phase transition when the initial particle density exceeds a critical threshold, raising important questions about the critical density. This talk provides an overview of the model and the known results, showing that the system exhibits a non-trivial phase transition. Based on a joint work with Nicolas Forien and Lorenzo Taggi.

Wednesday | 19.11.2025 | 15.30
HSB 9 | Civil Engineering Building