Institute colloquium

Robust results in percolation theory

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Bernoulli percolation, introduced in 1957 by Broadbent and Hammersley, is one of the simplest mathematical models to study phase transitions. A percolation configuration is a random subgraph of $\mathbb{Z}^d$ obtained by keeping a certain density $p$ of edges, and the phase transition is characterized by the sudden appearance of a large connected component, when $p$ increases.

An important phenomenon in percolation theory is universality - several features of the phase transition should be shared by a large family of different percolation models. In this talk we aim to explain some aspects of this universality: starting from known results in Bernoulli percolation, we will discuss new robust approaches that allow to extend the theory to a large family of models.

Monday, November 14, 2022 11:30am - 12:30pm
ISTA Campus Raiffeisen Lecture Hall

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.