

Seminar of Probability and Stochastic Process

Wednesday, 22th June, from 14h15

[MA A3 31](#), EPFL, Ecublens

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Sharpness of phase transition for Voronoi percolation on \mathbb{R}^d .

Abstract:

Take a Poisson point process on \mathbb{R}^d and consider the Voronoi tessellation of it.

Colour each cell of the tessellation black with probability p and white with probability $1 - p$ independently of each other.

There exists $p_c \in (0, 1)$ such that below p_c the probability of existence of an infinite black cluster is 0,

and above p_c there is a.s. an infinite black cluster. We show for p connecting origin to distance n decays exponentially fast in n .

The talk is based on a joint work with H. Duminil-Copin and Vincent Tassion.

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