

SCALING LIMIT OF PERCOLATION

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ABSTRACT. Percolation theory is concerned with the connectivity properties of large random graphs. This theory appears in various contexts and has many applications (e.g. porous media, communication networks, forest fires, ...).

It is also very rich from the mathematical point of view. In this talk we will discuss the scaling limit of critical percolation in two dimension, which involves complex analysis as well as stochastic calculus and which allows to compute many nontrivial and interesting quantities related to the model.

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