

Exploring near-critical percolation

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Abstract

Thanks to Schramm's SLE process and Smirnov's proof of conformal invariance, mathematicians now understand critical 2D percolation on the triangular lattice quite well. In this talk, we shall describe various aspects of the possible scaling limits of slightly off-critical percolation, and what can be said despite its lack of conformal invariance. This talk will be inspired by earlier papers by Harry Kesten and based on recent joint work with Pierre Nolin.