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In recent years, important progress has been made in the field of two-dimensional statistical physics. One of the most striking achievements is the proof of the Cardy-Smirnov formula: this theorem, together with the introduction of Schramm-Loewner Evolution and techniques developed over the years in percolation, allow precise descriptions of the critical and near-critical regimes of the model. This survey aims to describe the different steps leading to the proof that the infinite-cluster density θ or site percolation on the triangular lattice behaves like $(p-1/2)_+ (5/36+o(1))$ when p approaches its critical value $p_c=1/2$.

Planar percolation with a glimpse of

(Submitted on 1 Jul 2011 (v1), last revised 2 Nov 2011 (this version, v2))

Schramm-Loewner Evolution

Vincent Beffara (UMPA-ENSL), Hugo Duminil-Copin

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