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The Exploration process for critical percolation converges to SLE_6 polynomially fast.

We discuss the rate of convergence of the exploration process for critical percolation to SLE_6 . Essentially, it is a conditional result: as soon as a convergence itself is established for a percolation model, the power rate of convergence holds. So far, the result is unconditional for critical site percolation on hexagonal lattice and for some of its generalizations. I will emphasise the Complex Analytical ingredients of the proof. The talk is based on joint projects with Lincoln Chayes (UCLA), Helen Lei, and Larissa Richards (Toronto).