# The Full Scaling Limit of 2D Critical Percolation

Federico Camia
EURANDOM, Eindhoven

**Abstract.** Substantial progress has been made in recent years on the 2D critical percolation scaling limit and its conformal invariance properties. In particular, chordal $SLE_6$ (Schramm's Stochastic Loewner Evolution with parameter 6) was, in the work of Schramm and of Smirnov, identified as the scaling limit of the critical percolation "exploration process." After a quick review of the exploration process and its convergence to $SLE_6$, I will present recent joint work with Chuck Newman, where we use Schramm and Smirnov's results, among others, to construct the scaling limit of the collection of all interfaces between the critical percolation clusters on the 2D triangular lattice. This percolation "full" scaling limit is a random process (or gas) of continuum nonsimple loops in the plane constructed inductively by repeated use of chordal $SLE_6$.