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Scaling limits of random curves via Schramm–Loewner evolution

Friday, 17 April 2026 16:40 (20 minutes)

The Schramm–Loewner Evolution (SLE) provides a rigorous framework for characterizing the scaling limits of fractal curves, encoding their geometric properties through the diffusion parameter of a Brownian motion and enabling a universal classification of stochastic growth processes. In this talk, we introduce the basic ideas behind SLE and discuss its role in understanding conformally invariant scaling limits of critical lattice models, such as coastlines and invasion percolation trees. We also discuss some limitations of this description and suggest possible directions for generalizations.

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