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Investigating the Hitting Distribution of the Unit Circle by Chordal SLE in the Upper Half Plane

The Schramm-Loewner Evolution (SLE) is a one-parameter family of random growth processes in the complex plane introduced in 2000 by the late Oded Schramm that has proven fundamental to our understanding of many 2D statistical mechanics models at criticality. However, the path properties of SLE are also of mathematical interest. In this talk we will discuss one such property, namely the hitting distribution of the unit circle by chordal SLE in the upper half plane. While we are not able to rigorously prove any theorems, we will discuss some numerical simulations which suggest a very tantalizing conjecture.