

The Oliver Club

www.math.cornell.edu/~oliver/

Schramm-Loewner Evolutions on Riemann Surfaces

Introduced by Oded Schramm in 1999, Schramm-Loewner Evolutions (SLE) are random simple paths connecting two boundary points of a planar, simply connected domain. SLE has proved an efficient way to describe the scaling limit of critical 2d systems such as percolation.

Defining SLEs corresponding to more complicated configurations, such as simply-connected domains with several marked points or open Riemann surfaces, involves several difficulties. We will discuss "interactions" of several SLE strands and some constructions of SLE on open Riemann surfaces, in relation with zeta-regularization and Virasoro algebra representations.



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Refreshments will be served at 3:45 PM
in the Mathematics Department lounge
(532 Malott Hall).

Thursday, September 21, 2006
at 4:25 PM in 406 Malott Hall