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Using SLE to explain a certain observable in the 2d Ising model

The Schramm–Loewner evolution (SLE) is a one-parameter family of random growth processes that has been successfully used to analyze a number of models from two-dimensional statistical mechanics. Currently there is interest in trying to formalize our understanding of conformal field theory (CFT) using SLE. S. Smirnov recently showed that the scaling limit of interfaces of the 2d critical Ising model can be described by $SLE(3)$. The goal of this talk is to explain how a certain non-local observable of the 2d critical Ising model studied by L.-P. Arguin and Y. Saint-Aubin can be rigorously described using $SLE(3)$ and Smirnov's result.