

1096-60-175

Gregory F. Lawler* (lawler@math.uchicago.edu), Department of Mathematics, University of Chicago, Chicago, IL. *The Minkowski content of the Schramm-Loewner evolution (SLE)*.

The Schramm-Loewner evolution (SLE_κ) is a conformally invariant process in the plane arising as the scaling limit of critical models in statistical physics. For $0 < \kappa < 8$, the process gives curves of Hausdorff dimension $d = 1 + (\kappa/8)$ but Hausdorff d -measure zero. We show that the d -dimensional Minkowski content of the curves exists, is nontrivial, and is the same as the natural d -dimensional parametrization. This is joint work with M. Rezaei. (Received August 13, 2013)