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Conformal Dimension of Planar fractals.

The *conformal dimension* of a set is the minimal Hausdorff dimension of its quasisymmetric image. In this talk, I will discuss the conformal dimensions of various planar fractals, including Bedford-McMullen sets and self-affine fractal percolation clusters. I will also demonstrate that the Brownian graph is *minimal*, meaning its conformal dimension is $3/2$, which is also its Hausdorff dimension.

This work is a collaboration with Hrant Hakobyan from Kansas State University and Wenbo Li from Peking University.