

HYPERBOLIC GRAPHS INDUCED BY ITERATIONS AND APPLICATIONS IN FRACTALS

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Tencent room: 294-315-387 Code: 200433

Abstract: We will report our recent and ongoing investigation on the class of Gromov hyperbolic graphs arising from iterated function systems (IFS) in the theory of fractals. The relations of the hyperbolic boundaries and the attractors of IFSs are discussed. The applications include Lipschitz equivalence of attractors as well as the discrete potential theory of random walks on such graphs.