

On the separation profile of infinite graphs

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Abstract: Initial steps in the study of inner expansion properties of infinite Cayley graphs and other infinite graphs, such as hyperbolic ones, are taken, in a flavor similar to the well-known Lipton-Tarjan \sqrt{n} separation result for planar graphs. Connections to relaxed versions of quasi-isometries are explored, such as regular and semiregular maps. This is joint work with I. Benjamini and O. Schramm.