BIG SUBSETS WITH SMALL BOUNDARIES IN A GRAPH WITH A VERTEX-TRANSITIVE GROUP OF AUTOMORPHISMS

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The theory of ends of finitely generated groups G and connected locally finite graphs Γ with vertex-transitive groups of automorphisms can be regarded as a theory of the Boolean algebras of subsets of G or the vertex set of Γ with finite boundaries (in locally finite Cayley graphs of G or in Γ), considered modulo finite subsets. We develop a more general approach towards 'ends', replacing infinite subsets with finite boundaries by certain 'big' subsets with 'small' boundaries. This is a joint work with N. Seifter.

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