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Geometry of nontransitive graphs. (English) Zbl 07562625

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Summary: We study nontransitive graphs and prove a number of results when they satisfy a coarse version of transitivity. Also, for each finitely generated group $G$, we produce continuum many pairwise non-quasiisometric regular graphs that have the same growth rate, number of ends, and asymptotic dimension as $G$.

MSC:

20F18 Nilpotent groups
20F65 Geometric group theory
20F69 Asymptotic properties of groups
51F30 Lipschitz and coarse geometry of metric spaces

Keywords:

transitive graph; quasiisometry; growth rate; number of ends; asymptotic dimension

Full Text: DOI arXiv