Sledd, Levi
Assouad-Nagata dimension of finitely generated \(C'(\frac{1}{6})\) groups. (English) [Zbl 07375601]
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Summary: This paper is the first in a two-part series. In this paper, we prove that the Assouad-Nagata dimension of any finitely generated (but not necessarily finitely presented) \(C'(\frac{1}{6})\) group is at most 2. In the next paper, we use this result, along with techniques of classical small cancellation theory, to answer two open questions in the study of asymptotic and Assouad-Nagata dimension of finitely generated groups.

MSC:
20F65 Geometric group theory
54F45 Dimension theory in general topology

Keywords:
group; group theory; geometric group theory; finitely generated; infinitely presented; small cancellation; \(C'(\frac{1}{6})\); asymptotic; Assouad-Nagata; dimension; geodesic; combing; triangles; van Kampen diagram

Full Text: DOI

References:
[9] Agol, I., An answer to “Asymptotic dimension of \(\langle\langle C\rangle\rangle\) prime(1 \slash 6)\) small cancellation groups” (2015)

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