

THE GEOMETRY OF THE WORD PROBLEM FOR FINITELY GENERATED GROUPS ADVANCED COURSES IN MATHEMATICS

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The Word Problem was posed by Dehn [33] in 1912. He asked, given a group, for a systematic method (in modern terms, an algorithm) which, given a ?nite list (a word) of basic group elements (generators and their formal inverses), declares whether or not their product is the identity. One of the great achievements of 20th century mathematics was

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Noel Brady, Tim Riley, and Hamish Short, The geometry of the word problem for finitely generated groups, Advanced Courses in Mathematics. CRM Barcelona, Birkhäuser Verlag, Basel, 2007. Papers from the Advanced Course held in Barcelona, July 5–15, 2005. MR 2281936

[Hamish Short](#)

Filling functions; part II of Geometry of the Word Problem for Finitely Generated Groups, Advanced Courses in Mathematics, CRM Barcelona, Birkhäuser-Verlag, 2007. Diameters of Cayley graphs of Chevalley groups (with Martin Kassabov), Eur. J. Comb 28 (2007), no. 3, 791–800.

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The word problem for a finitely generated group is the decision problem whether two words in the generators of the group represent the same element. The word problem for a given finitely generated group is solvable if and only if the group can be embedded in every algebraically closed group.

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The two problems have different answers for some instances; that is, sometimes $w \neq 1$ in G but every matrix representation maps w to the identity matrix. There even exists a finitely presented infinite group which does not have a nontrivial matrix representation. See the answers to the question "Finitely presented sub-groups of $GL(n, \mathbb{C})$ " by ...

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James Wiegold, John S. Wilson, Growth sequences of finitely generated groups, Archiv der Mathematik, 10.1007/BF01226063, 30, 1, (337-343), (1978). Crossref Denis Cheniot, Le theoreme de Van Kampen sur le groupe fondamental du complementaire d'une courbe algebrigue projective plane, Fonctions de Plusieurs Variables Complexes, 10.1007/BFb0068112, (394-417), (1974).

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A subgroup of a finitely generated group need not be finitely generated. A fortiori, every finitely presented group is finitely generated. See Presentation of a group#Examples for several examples. See Generating set of a group#Examples for more examples. Finitely generated Abelian groups. The six 6th complex roots of unity form a cyclic group under multiplication. Main article: finitely ...

[Geometric group theory - Wikipedia](#)

(e.g. Roman 12, theorem 13.4, Navarro 03) for cyclic groups e.g. (Aluffi 09, pages 83-84) This is a special case of the structure theorem for finitely generated modules over a principal ideal domain.. Examples. The following examples may be useful for illustrative or instructional purposes.

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We explain the Fundamental Theorem of Finitely Generated Abelian Groups. As an application we prove that a finite abelian group of square-free order is cyclic.

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The course is intended as an introduction into the theory of amenable groups. We will discuss amenability in relation to the algebraic structure of a (finitely generated) group, as well as to such geometric and probabilistic properties as growth, random walks and percolation. Prerequisite: Undergraduate knowledge in group theory and topology.

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Abstract. Let G be the family of finitely presented infinite simple groups introduced by Higman, generalizing R.J. Thompson's group of dyadic homeomorphisms of the Cantor set. For each $G \in G$ and each integer $n \geq 1$, an $(n-1)$ -connected n -dimensional simplicial complex is constructed, on which G acts with finite stabilizers and with an n -simplex as fundamental domain.

[On the rate of convergence to the asymptotic cone for ...](#)

Given a group-word w and a group G , the verbal subgroup $w(G)$ is the one generated by all w -values in G . The word w is said to be concise if $w(G)$ is finite whenever the set of w -values in G is finite. In 1960s, Hall asked whether every word is concise but later Ivanov answered this question in the negative. On the other hand, Hall's question ...

[Chapter 7 Notes - ON BOUNDED LANGUAGES AND THE GEOMETRY OF...](#)

Ivan K Babenko, Algebra, geometry, and topology of the substitution group of formal power series, Russian Mathematical Surveys, 10.1070/RM2013v068n01ABEH004821, 68, 1, (1-68), (2013). Crossref Mustafa Gökhan Benli, Rostislav Grigorchuk, Pierre de la Harpe, Amenable groups without finitely presented amenable covers, Bulletin of Mathematical Sciences, 10.1007/s13373-013-0031-5, 3, 1, (73-131) ...

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Other articles where Finitely generated group is discussed: Burnside problem: ...problem of determining if a finitely generated periodic group with each element of finite order must necessarily be a finite group. The problem was formulated by the English mathematician William Burnside in 1902.

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Mathematics Geometriae Dedicata If G is a hyperbolic group (resp. synchronously or asynchronously automatic group) which can be expressed as an extension of a finitely presented group H by a finitely generated free group, then the normal subgroup H satisfies a polynomial isoperimetric inequality (resp. exponential isoperimetric inequality).

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