

# Graduate Texts in Mathematics

**Alan F. Beardon**

## **The Geometry of Discrete Groups**



**Springer**

# Geometry Of Discrete Groups

**Michael Kapovich**



## Geometry Of Discrete Groups:

The Geometry of Discrete Groups Alan F. Beardon, 2012-12-06 This text is intended to serve as an introduction to the geometry of the action of discrete groups of Möbius transformations. The subject matter has now been studied with changing points of emphasis for over a hundred years, the most recent developments being connected with the theory of 3-manifolds; see for example the papers of Poincaré 77 and Thurston 101. About 1940 the now well known but virtually unobtainable Fenchel-Nielsen manuscript appeared. Sadly the manuscript never appeared in print and this more modest text attempts to display at least some of the beautiful geometrical ideas to be found in that manuscript as well as some more recent material. The text has been written with the conviction that geometrical explanations are essential for a full understanding of the material and that however simple a matrix proof might seem a geometric proof is almost certainly more profitable. Further wherever possible results should be stated in a form that is invariant under conjugation thus making the intrinsic nature of the result more apparent. Despite the fact that the subject matter is concerned with groups of isometries of hyperbolic geometry many publications rely on Euclidean estimates and geometry. However the recent developments have again emphasized the need for hyperbolic geometry and I have included a comprehensive chapter on analytical not axiomatic hyperbolic geometry. It is hoped that this chapter will serve as a dictionary of formulae in plane hyperbolic geometry and as such will be of interest and use in its own right.

**Conformal Geometry of Discrete Groups and Manifolds** Boris Nikolaevich Apanasov, 2000 The aim of the Expositions is to present new and important developments in pure and applied mathematics. Well established in the community over more than two decades the series offers a large library of mathematical works including several important classics. The volumes supply thorough and detailed expositions of the methods and ideas essential to the topics in question. In addition they convey their relationships to other parts of mathematics. The series is addressed to advanced readers interested in a thorough study of the subject. Editorial Board: Lev Birbrair, Universidade Federal do Ceará, Fortaleza, Brasil; Walter D. Neumann, Columbia University, New York, USA; Markus J. Pflaum, University of Colorado, Boulder, USA; Dierk Schleicher, Jacobs University, Bremen, Germany; Katrin Wendland, University of Freiburg, Germany; Honorary Editor: Victor P. Maslov, Russian Academy of Sciences, Moscow, Russia. Titles in planning include: Yuri A. Bahturin, *Identical Relations in Lie Algebras* 2019; Yakov G. Berkovich, Lev G. Kazarin and Emmanuel M. Zhmud, *Characters of Finite Groups* Volume 2 2019; Jorge Herbert Soares de Lira, *Variational Problems for Hypersurfaces in Riemannian Manifolds* 2019; Volker Mayer, Mariusz Urbański and Anna Zdunik, *Random and Conformal Dynamical Systems* 2021; Ioannis Diamantis, Bostjan Gabrovšek, Sofia Lambropoulou and Maciej Mroczkowski, *Knot Theory of Lens Spaces* 2021.

**The Geometry of Discrete Groups** Chun Cao, 1996

**Discrete Groups** Ken'ichi Ōshika, Ken'ichi Ōshika, 2002 Ōshika provides a concise introduction to the study of infinite groups as geometric objects. The main topics addressed are the theory of hyperbolic groups in the sense of Gromov, Epstein's automatic group theory and Kleinian group theory. Coverage extends to the

interactions between these theories and their relations to low dimensional topology Ohshika developed the text while teaching graduate courses at three Japanese universities The text has been translated from the Japanese by the author c Book News Inc

**Discrete Groups in Geometry and Analysis** R. Howe, 2014-09-01 **Discrete Groups and Geometry** William J. Harvey, C. Maclachlan, 1992-07-30 This book constitutes the proceedings of a conference held at the University of Birmingham to mark the retirement of Professor A M Macbeath The papers represent up to date work on a broad spectrum of topics in the theory of discrete group actions ranging from presentations of finite groups through the detailed study of Fuchsian and crystallographic groups to applications of group actions in low dimensional topology complex analysis algebraic geometry and number theory For those wishing to pursue research in these areas this volume offers a valuable summary of contemporary thought and a source of fresh geometric insights

**Discrete Groups in Geometry and Analysis** Howe, 2013-11-22 **Discrete Groups and Geometric Structures** Karel Dekimpe, Paul Igodt, Alain Valette, 2009-11-12 This volume reports on research related to Discrete Groups and Geometric Structures as presented during the International Workshop held May 26 30 2008 in Kortrijk Belgium Readers will benefit from impressive survey papers by John R Parker on methods to construct and study lattices in complex hyperbolic space and by Ursula Hamenstadt on properties of group actions with a rank one element on proper  $\text{CAT}(0)$  spaces This volume also contains research papers in the area of group actions and geometric structures including work on loops on a twice punctured torus the simplicial volume of products and fiber bundles the homology of Hantzsche Wendt groups rigidity of real Bott towers circles in groups of smooth circle homeomorphisms and groups generated by spine reflections admitting crooked fundamental domains

*Discrete Groups in Geometry and Analysis* Birkhauser Verlag AG, Birkhauser Verlag GmbH, 1987 **Hyperbolic Manifolds and Discrete Groups** Michael Kapovich, 2009-10-28 Hyperbolic Manifolds and Discrete Groups is at the crossroads of several branches of mathematics hyperbolic geometry discrete groups 3 dimensional topology geometric group theory and complex analysis The main focus throughout the text is on the Big Monster i e on Thurston's hyperbolization theorem which has not only completely changes the landscape of 3 dimensional topology and Kleinian group theory but is one of the central results of 3 dimensional topology The book is fairly self contained replete with beautiful illustrations a rich set of examples of key concepts numerous exercises and an extensive bibliography and index It should serve as an ideal graduate course seminar text or as a comprehensive reference

Discrete Groups in Space and Uniformization Problems B. Apanasov, 1991-06-30 A revised and substantially enlarged edition of the Russian book Discrete transformation groups and manifold structures published by Nauka in 1983 this volume presents a comprehensive treatment of the geometric theory of discrete groups and the associated tessellations of the underlying space Also dealt with in depth are geometric and conformal structures on manifolds with particular emphasis on hyperbolic  $n$  dimensional manifolds A detailed account of the geometric and analytic properties of geometrically finite Mobius groups in  $n$  dimensional space is given and this forms the basis of the subsequent

analysis Emphasis is placed on the geometrical aspects and on the universal constraints which must be satisfied by all tessellations and structures on manifolds Annotation copyrighted by Book News Inc Portland OR *Geometry, Analysis and Topology of Discrete Groups* Lizhen Ji, 2008 Presents 15 papers treating discrete groups as they occur in areas such as algebra analysis geometry number theory and topology This work helps graduate students and researchers to understand the structures and applications of discrete subgroups of Lie groups and locally symmetric spaces **Discrete Groups and Geometry** C. Maclachlan, 1992 *Geometry and Cohomology in Group Theory* Peter H. Kropholler, Graham A. Niblo, Ralph Stöhr, 1998-05-14 This volume reflects the fruitful connections between group theory and topology It contains articles on cohomology representation theory geometric and combinatorial group theory Some of the world's best known figures in this very active area of mathematics have made contributions including substantial articles from Ol'shanskii Mikhajlovskii Carlson Benson Linnell Wilson and Grigorchuk which will be valuable reference works for some years to come Pure mathematicians working in the fields of algebra topology and their interactions will find this book of great interest Arithmetic Groups and Their Generalizations Lizhen Ji, 2008 In one guise or another many mathematicians are familiar with certain arithmetic groups such as  $\mathbf{Z}$  or  $\mathrm{SL}(n, \mathbf{Z})$  Yet many applications of arithmetic groups and many connections to other subjects within mathematics are less well known Indeed arithmetic groups admit many natural and important generalizations The purpose of this expository book is to explain through some brief and informal comments and extensive references what arithmetic groups and their generalizations are why they are important to study and how they can be understood and applied to many fields such as analysis geometry topology number theory representation theory and algebraic geometry It is hoped that such an overview will shed a light on the important role played by arithmetic groups in modern mathematics Titles in this series are co published with International Press Cambridge MA Table of Contents Introduction General comments on references Examples of basic arithmetic groups General arithmetic subgroups and locally symmetric spaces Discrete subgroups of Lie groups and arithmeticity of lattices in Lie groups Different completions of  $\mathbb{Q}$  and  $\mathbb{S}$  arithmetic groups over number fields Global fields and  $\mathbb{S}$  arithmetic groups over function fields Finiteness properties of arithmetic and  $\mathbb{S}$  arithmetic groups Symmetric spaces Bruhat-Tits buildings and their arithmetic quotients Compactifications of locally symmetric spaces Rigidity of locally symmetric spaces Automorphic forms and automorphic representations for general arithmetic groups Cohomology of arithmetic groups  $K$  groups of rings of integers and  $K$  groups of group rings Locally homogeneous manifolds and period domains Non-cofinite discrete groups geometrically finite groups Large scale geometry of discrete groups Tree lattices Hyperbolic groups Mapping class groups and outer automorphism groups of free groups Outer automorphism group of free groups and the outer spaces References Index Review from Mathematical Reviews the author deserves credit for having done the tremendous job of encompassing every aspect of arithmetic groups visible in today's mathematics in a systematic manner the book should be an important guide for some time to come AMSIP 43 **Discrete**

**Groups, Expanding Graphs and Invariant Measures** Alex Lubotzky, 1994-08-01 In the last fifteen years two seemingly unrelated problems one in computer science and the other in measure theory were solved by amazingly similar techniques from representation theory and from analytic number theory One problem is the explicit construction of expanding graphs expanders These are highly connected sparse graphs whose existence can be easily demonstrated but whose explicit construction turns out to be a difficult task Since expanders serve as basic building blocks for various distributed networks an explicit construction is highly desirable The other problem is one posed by Ruziewicz about seventy years ago and studied by Banach It asks whether the Lebesgue measure is the only finitely additive measure of total measure one defined on the Lebesgue subsets of the  $n$  dimensional sphere and invariant under all rotations The two problems seem at first glance totally unrelated It is therefore so what surprising that both problems were solved using similar methods initially Kazhdan's property T from representation theory of semi simple Lie groups was applied in both cases to achieve partial results and later on both problems were solved using the proved Ramanujan conjecture from the theory of automorphic forms The fact that representation theory and automorphic forms have anything to do with these problems is a surprise and a hint as well that the two questions are strongly related *Geometry of Riemann Surfaces* William J. Harvey, Frederick P. Gardiner, Gabino González-Diez, Christos Kourouniotis, 2010-02-11 Original research and expert surveys on Riemann surfaces *Discrete Groups and Geometry* W. J. Harvey, C. Maclachlan, 1992 Proceedings of the conference held at the University of Birmingham in honour of Professor A M Macbeath Many interesting papers are included from respected figures on discrete group theory Regular  $b$ -Groups, Degenerating Riemann Surfaces, and Spectral Theory Dennis A. Hejhal, 1990 This paper is concerned with the spectral theory of the Laplacian as the underlying Riemann surface is pinched down to a surface with nodes The problem is attacked from the general standpoint of regular  $b$  groups and the Selberg trace formula Groups of Lie Type and Their Geometries William M. Kantor, 1995-01-12 Silk Hope NC is a buoyant and moving parable in which two good women find among the hidden forgotten virtues of the past a sustenance to carry them into the future

## Unveiling the Energy of Verbal Artistry: An Mental Sojourn through **Geometry Of Discrete Groups**

In a global inundated with screens and the cacophony of quick communication, the profound power and psychological resonance of verbal art often disappear into obscurity, eclipsed by the constant barrage of noise and distractions. However, nestled within the musical pages of **Geometry Of Discrete Groups**, a fascinating function of literary splendor that impulses with natural feelings, lies an remarkable journey waiting to be embarked upon. Published by a virtuoso wordsmith, this exciting opus manuals visitors on a mental odyssey, gently revealing the latent possible and profound impact stuck within the complicated internet of language. Within the heart-wrenching expanse of the evocative evaluation, we shall embark upon an introspective exploration of the book is key styles, dissect their charming writing design, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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