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*Boris N. Apanasov*

# CONFORMAL GEOMETRY OF DISCRETE GROUPS AND MANIFOLDS

DE GRUYTER EXPOSITIONS IN MATHEMATICS

# Discrete Groups And Geometry

**Boris Nikolaevich Apanasov**



## Discrete Groups And Geometry:

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*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  $\mathrm{CAT}(0)$  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 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 and Geometry* C. Maclachlan, 1992

*Discrete Groups* Ken'ichi Ōshika, Ken'ichi Ōshika, 2002 Ohshika 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** Howe,2013-11-22 **Discrete Groups in Geometry and Analysis** R. Howe,2014-09-01

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 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

**Discrete Groups in Geometry and Analysis** Birkhauser Verlag AG,Birkhauser Verlag GmbH,1987

*The Geometry of Discrete Groups* Chun Cao,1996 **Hyperbolic Manifolds and Discrete Groups** Michael

Kapovich,2010-11-03 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

*Infinite Groups: Geometric, Combinatorial and Dynamical Aspects* Laurent Bartholdi,Tullio

Ceccherini-Silberstein,Tatiana Smirnova-Nagnibeda,Andrzej Zuk,2006-03-28 This book offers a panorama of recent advances in the theory of infinite groups It contains survey papers contributed by leading specialists in group theory and other areas of mathematics Topics include amenable groups Kaehler groups automorphism groups of rooted trees rigidity C algebras random walks on groups pro p groups Burnside groups parafree groups and Fuchsian groups The accent is put on strong connections between group theory and other areas of mathematics

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     **Geometric Group Theory** Mladen Bestvina, Michah Sageev, Karen Vogtmann, 2014-12-24 Geometric group theory refers to the study of discrete groups using tools from topology geometry dynamics and analysis The field is evolving very rapidly and the present volume provides an introduction to and overview of various topics which have played critical roles in this evolution The book contains lecture notes from courses given at the Park City Math Institute on Geometric Group Theory The institute consists of a set of intensive short courses offered by leaders in the field designed to introduce students to exciting current research in mathematics These lectures do not duplicate standard courses available elsewhere The courses begin at an introductory level suitable for graduate students and lead up to currently active topics of research The articles in this volume include introductions to CAT 0 cube complexes and groups to modern small cancellation theory to isometry groups of general CAT 0 spaces and a discussion of nilpotent genus in the context of mapping class groups and CAT 0 groups One course surveys quasi isometric rigidity others contain an exploration of the geometry of Outer space of actions of arithmetic groups lectures on lattices and locally symmetric spaces on marked length spectra and on expander graphs Property tau and approximate groups This book is a valuable resource for graduate students and researchers interested in geometric group theory Titles in this series are co published with the Institute for Advanced Study Park City Mathematics Institute Members of the Mathematical Association of America MAA and the National Council of Teachers of Mathematics NCTM receive a 20% discount from list price     **Frontiers in Number Theory, Physics, and Geometry II** Pierre E. Cartier, Bernard Julia, Pierre Moussa, Pierre Vanhove, 2007-07-18 Ten years after a 1989 meeting of number theorists and physicists at the Centre de Physique des Houches a second event focused on the broader interface of number theory geometry and physics This book is the first of two volumes resulting from that meeting Broken into three parts it covers Conformal Field Theories Discrete Groups and Renormalization offering extended versions of the lecture courses and shorter texts on special topics     **Discrete Groups and Computational Geometry** Haydn Cooper, 2013     **Arithmetic Groups and Their Generalizations** Lizhen Ji, 2008 In one guise or another many mathematicians are familiar with certain arithmetic groups such as  $\mathbb{Z}$  or  $\mathrm{SL}_n(\mathbb{Z})$  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  $S$  arithmetic groups over function fields Finiteness properties of arithmetic and  $S$  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

**The Mathematical Legacy of Wilhelm Magnus: Groups, Geometry and Special Functions** William Abikoff, Joan S. Birman, Kathryn Kuiken, 1994 Wilhelm Magnus was an extraordinarily creative mathematician who made fundamental contributions to diverse areas including group theory geometry and special functions This book contains the proceedings of a conference held in May 1992 at Polytechnic University Brooklyn to honour the memory of Magnus The focus of the book is on active areas of research where Magnus influence can be seen The papers range from expository articles to major new research bringing together seemingly diverse topics and providing entry points to a variety of areas of mathematics

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