



Kleinian Groups

Bernard Maskit



Kleinian Groups:

Complex Kleinian Groups Angel Cano, Juan Pablo Navarrete, José Seade, 2012-11-05 This monograph lays down the foundations of the theory of complex Kleinian groups a newly born area of mathematics whose origin traces back to the work of Riemann Poincaré Picard and many others Kleinian groups are classically discrete groups of conformal automorphisms of the Riemann sphere and these can be regarded too as being groups of holomorphic automorphisms of the complex projective line CP^1 When going into higher dimensions there is a dichotomy Should we look at conformal automorphisms of the n sphere or should we look at holomorphic automorphisms of higher dimensional complex projective spaces These two theories are different in higher dimensions In the first case we are talking about groups of isometries of real hyperbolic spaces an area of mathematics with a long standing tradition In the second case we are talking about an area of mathematics that still is in its childhood and this is the focus of study in this monograph This brings together several important areas of mathematics as for instance classical Kleinian group actions complex hyperbolic geometry crystallographic groups and the uniformization problem for complex manifolds

Hyperbolic Manifolds and Kleinian Groups Katsuhiko Matsuzaki, Masahiko Taniguchi, 1998-04-30 A Kleinian group is a discrete subgroup of the isometry group of hyperbolic 3 space which is also regarded as a subgroup of Möbius transformations in the complex plane The present book is a comprehensive guide to theories of Kleinian groups from the viewpoints of hyperbolic geometry and complex analysis After 1960 Ahlfors and Bers were the leading researchers of Kleinian groups and helped it to become an active area of complex analysis as a branch of Teichmüller theory Later Thurston brought a revolution to this area with his profound investigation of hyperbolic manifolds and at the same time complex dynamical approach was strongly developed by Sullivan This book provides fundamental results and important theorems which are needed for access to the frontiers of the theory from a modern viewpoint

Kleinian Groups Bernard Maskit, 2012-12-06 The modern theory of Kleinian groups starts with the work of Lars Ahlfors and Lipman Bers specifically with Ahlfors finiteness theorem and Bers observation that their joint work on the Beltrami equation has deep implications for the theory of Kleinian groups and their deformations From the point of view of uniformizations of Riemann surfaces Bers observation has the consequence that the question of understanding the different uniformizations of a finite Riemann surface poses a purely topological problem it is independent of the conformal structure on the surface The last two chapters here give a topological description of the set of all geometrically finite uniformizations of finite Riemann surfaces We carefully skirt Ahlfors finiteness theorem For groups which uniformize a finite Riemann surface that is groups with an invariant component one can either start with the assumption that the group is finitely generated and then use the finiteness theorem to conclude that the group represents only finitely many finite Riemann surfaces or as we do here one can start with the assumption that in the invariant component the group represents a finite Riemann surface and then using essentially topological techniques reach the same conclusion More recently Bill

Thurston wrought a revolution in the field by showing that one could analyze Kleinian groups using 3 dimensional hyperbolic geometry and there is now an active school of research using these methods

Kleinian Groups which Are Limits of Geometrically Finite Groups Ken'ichi Ōshika, 2005 Ahlfors conjectured in 1964 that the limit set of every finitely generated Kleinian group either has Lebesgue measure 0 or is the entire S^2 This title intends to prove that this conjecture is true for purely loxodromic Kleinian groups which are algebraic limits of geometrically finite groups

Spaces of Kleinian Groups Yair N. Minsky, Makoto Sakuma, Caroline Series, 2006-06-19 The subject of Kleinian groups and hyperbolic 3 manifolds is currently undergoing explosively fast development the last few years having seen the resolution of many longstanding conjectures This volume contains important expositions and original work by some of the main contributors on topics such as topology and geometry of 3 manifolds curve complexes classical Ahlfors Bers theory computer explorations and projective structures Researchers in these and related areas will find much of interest here

Kleinian Groups and Uniformization in Examples and Problems Samuil Leĭbovich Krushkal', Boris Nikolaevich Apanasov, Nikolai Aleksandrovich Gusevskii, 1986 Presents a unified exposition of the main areas and methods of the theory of Kleinian groups and the theory of uniformization of manifolds This book lists the basic facts regarding Kleinian groups and serves as a general guide to the primary literature particularly the Russian literature in the field

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

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Low-dimensional Topology and Kleinian Groups D. B. A. Epstein, 1986 Volume 2 is divided into three parts the first Surfaces contains an article by Thurston on earthquakes and by Penner on traintracks The second part is entitled Knots and 3 Manifolds and the final part Kleinian Groups

Kleinian Groups and Related Topics D. M. Gallo, R. M. Porter, 2014-01-15

A Crash Course on Kleinian Groups L. Bers, I. Kra, 2014-01-15

A Crash Course on Kleinian Groups L. Bers, I. Kra, 2006-11-15

Conformal Geometry of Discrete Groups and Manifolds Boris N. Apanasov, 2011-06-24 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 Cear 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

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Geometry and Dynamics of Groups and Spaces Mikhail Kapranov, Sergii Kolyada, Yu. I. Manin, Pieter Moree, Leonid Potyagailo, 2008-03-05 Alexander Reznikov 1960 2003 was a brilliant and highly original mathematician This book presents 18 articles by prominent mathematicians and is dedicated to his memory In addition it contains an influential so far unpublished manuscript by Reznikov of book length The book further provides an extensive survey on Kleinian groups in higher dimensions and some articles centering on Reznikov as a person

Hyperbolic Manifolds and Discrete Groups Michael Kapovich, 2009-08-04 The main goal of the book is to present a proof of the following Thurston's Hyperbolization Theorem The Big Monster Suppose that M is a compact atoroidal Haken 3 manifold that has zero Euler characteristic Then the interior of M admits a complete hyperbolic metric of finite volume This theorem establishes a strong link between the geometry and topology 3 of 3 manifolds and the algebra of discrete subgroups of $\text{Isom } \mathbb{H}^3$ It completely changed the landscape of 3 dimensional topology and theory of Kleinian groups Further it allowed one to prove things that were beyond the reach of the standard 3 manifold technique as for example Smith's conjecture residual finiteness of the fundamental groups of Haken manifolds etc In this book we present a complete proof of the Hyperbolization Theorem in the generic case Initially we planned 1 including a detailed proof in the remaining case of manifolds fibered over as well However since Otal's book Ota96 which treats the fiber bundle case became available only a sketch of the proof in the fibered case will be given here

Groups--Korea '94 Ann Chi Kim, D. L. Johnson, 1995 The series is aimed specifically at publishing peer reviewed reviews and contributions presented at workshops and conferences Each volume is associated with a particular conference symposium or workshop These events cover various topics within pure and applied mathematics and provide up to date coverage of new developments methods and applications

Kleinian Groups and Uniformization in Examples and Problems Samuil Leĭbovich Krushkal', Boris Nikolaevich Apanasov, Nikolai Aleksandrovich Gusevskii, 1986 Aimed at researchers graduate students and undergraduates alike this book presents a unified exposition of all the main areas and methods of the theory of Kleinian groups and the theory of uniformization of manifolds The past 20 years have seen a rejuvenation of the field due to the development of powerful new methods in topology the theory of functions of several complex variables and the theory of quasiconformal mappings Thus this new book should provide a valuable resource listing the basic facts regarding Kleinian groups and serving as a general guide to the primary literature par

Kleinian Groups and Related Topics D.M. Gallo, R.M. Porter, 2006-11-15

Complex Analysis and Dynamical Systems II Lawrence Allen Zalcman, Mark L'vovich Agranovskii, Lavi Karp, David Shoiykhet, 2005 This volume

is a collection of papers reflecting the conference held in Nahariya Israel in honor of Professor Lawrence Zalcman's sixtieth birthday. The papers, many written by leading authorities, range widely over classical complex analysis of one and several variables, differential equations and integral geometry. Topics covered include but are not limited to these areas within the theory of functions of one complex variable, complex dynamics, elliptic functions, Kleinian groups, quasiconformal mappings, Tauberian theorems, univalent functions and value distribution theory. Altogether the papers in this volume provide a comprehensive overview of activity in complex analysis at the beginning of the twenty-first century and testify to the continuing vitality of the interplay between classical and modern analysis. It is suitable for graduate students and researchers interested in complex analysis and differential geometry.

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Geometry of Group Representations William Mark Goldman, Andy R. Magid, American Mathematical Society, 1988. Contains papers based on talks delivered at the AMS/IMS/SIAM Summer Research Conference on the Geometry of Group Representations held at the University of Colorado in Boulder in July 1987. This work offers an understanding of the state of research in the geometry of group representations and their applications.

Lipa's Legacy Józef Dodziuk, Linda Keen, 1997. The mathematical works of Lars Ahlfors and Lipman Bers are fundamental and lasting. They have influenced and altered the development of twentieth-century mathematics. The personalities of these two scientists helped create a mathematical family and have had a permanent positive effect on a whole generation of mathematicians. Their mathematical heritage continues to lead succeeding generations. In the fall of 1994, one year after Bers' death, some members of this family decided to inaugurate a series of conferences, The Bers Colloquium, to be held every three years. The theme was to be a topic in the Ahlfors-Bers mathematical tradition broadly interpreted. Ahlfors died a year after the first colloquium; future colloquia in this series will be called The Ahlfors-Bers Colloquium. The first colloquium was held in October 1995 at the Graduate Center, CUNY in New York. It coincided roughly with the second anniversary of Bers' death. There were six lectures and much informal mathematical discussion. This volume contains papers by the speakers and many of the participants. The broad range of papers indicates how strong and far-reaching Bers' influence has been. The topics represented in the book include Teichmüller theory, Kleinian groups, higher-dimensional hyperbolic geometry, geometry of numbers, circle packings, theory of discrete groups, classical complex function theory, one-dimensional dynamics, fluid dynamics, quasiconformal mappings in higher dimensions, partial differential equations and classical algebraic geometry.

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