

# **Hyperbolic Manifolds and Discrete Groups**

Michael Kapovich

# Hyperbolic Manifolds And Discrete Groups Modern Birkhuser Classics

**Michael Kapovich**



## **Hyperbolic Manifolds And Discrete Groups Modern Birkhuser Classics:**

**Hyperbolic Manifolds and Discrete Groups** Michael Kapovich, 2001 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

**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 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

**In the Tradition of Thurston** Ken'ichi Ohshika, Athanase Papadopoulos, 2020-12-07 This book consists of 16 surveys on Thurston s work and its later development The authors are mathematicians who were strongly influenced by Thurston s publications and ideas The subjects discussed include among others knot theory the topology of 3 manifolds circle packings complex projective structures hyperbolic geometry Kleinian groups foliations mapping class groups Teichmüller theory anti de Sitter geometry and co Minkowski geometry The book is addressed to researchers and students who want to learn about Thurston s wide ranging mathematical ideas and their impact At the same time it is a tribute to Thurston one of the greatest geometers of all time whose work extended over many fields in mathematics and who had a unique way of perceiving forms and patterns and of communicating and writing mathematics

**Thermodynamic Formalism** Mark Pollicott, Sandro Vaienti, 2021-10-01 This volume arose from a semester at CIRM Luminy on Thermodynamic Formalism Applications to Probability Geometry and Fractals which brought together leading experts in the area to discuss topical problems and recent progress It includes a number of surveys intended to make the field more accessible to younger mathematicians and scientists wishing to learn more about the area Thermodynamic formalism has been a powerful tool in ergodic theory and dynamical system and its applications to other topics particularly Riemannian

geometry especially in negative curvature statistical properties of dynamical systems and fractal geometry This work will be of value both to graduate students and more senior researchers interested in either learning about the main ideas and themes in thermodynamic formalism and research themes which are at forefront of research in this area In the Tradition of Thurston III Ken'ichi Ohshika,Athanasios Papadopoulos,2024-03-19 William Thurston's ideas have altered the course of twentieth century mathematics and they continue to have a significant influence on succeeding generations of mathematicians The purpose of the present volume and of the other volumes in the same series is to provide a collection of articles that allows the reader to learn the important aspects of Thurston's heritage The topics covered in this volume include Kleinian groups holomorphic motions earthquakes from the Anti de Sitter point of view the Thurston and Weil-Petersson metrics on Teichmüller space 3-manifolds geometric structures dynamics on surfaces homeomorphism groups of 2-manifolds and the theory of orbifolds *Trees of Hyperbolic Spaces* Michael Kapovich,Pranab Sardar,2024-08-15 This book offers an alternative proof of the Bestvina-Feighn combination theorem for trees of hyperbolic spaces and describes uniform quasigeodesics in such spaces As one of the applications of their description of uniform quasigeodesics the authors prove the existence of Cannon-Thurston maps for inclusion maps of total spaces of subtrees of hyperbolic spaces and of relatively hyperbolic spaces They also analyze the structure of Cannon-Thurston laminations in this setting Furthermore some group theoretic applications of these results are discussed This book also contains background material on coarse geometry and geometric group theory **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 **Reshetnyak's Theory of Subharmonic Metrics** François Fillastre,Dmitriy Slutskiy,2023-09-15 Despite the fundamental role played by Reshetnyak's work in the theory of surfaces of bounded integral curvature the proofs of his results were only available in his original articles written in Russian and often hard to find This situation used to be a serious problem for experts in the field This book provides English translations of the full set of Reshetnyak's articles on the subject Together with the companion articles this book provides an

accessible and comprehensive reference for the subject. In turn, this book should concern any researcher confirmed or not interested in or active in the field of bounded integral curvature surfaces or more generally interested in surface geometry and geometric analysis. Due to the analytic nature of Reshetnyak's approach, it appears that his articles are very accessible for a modern audience comparing to the works using a more synthetic approach. These articles of Reshetnyak concern more precisely the work carried by the author following the completion of his PhD thesis under the supervision of A. D. Alexandrov. Over the period from the 1940s to the 1960s, the Leningrad School of Geometry developed a theory of the metric geometry of surfaces similar to the classical theory of Riemannian surfaces but with lower regularity allowing greater flexibility. Let us mention A. D. Alexandrov, Y. D. Burago, and V. A. Zalgaller. The types of surfaces studied by this school are now known as surfaces of bounded curvature. Particular cases are that of surfaces with curvature bounded from above or below, the study of which gained special attention after the works of M. Gromov and G. Perelman. Nowadays, these concepts have been generalized to higher dimensions, to graphs, and so on, and the study of metrics of weak regularity remains an active and challenging field. Reshetnyak developed an alternative and analytic approach to surfaces of bounded integral curvature. The underlying idea is based on the theorem of Gauss which states that every Riemannian surface is locally conformal to Euclidean space. Reshetnyak thus studied generalized metrics which are locally conformal to the Euclidean metric with conformal factor given by the logarithm of the difference between two subharmonic functions on the plane. Reshetnyak's condition appears to provide the correct regularity required to generalize classical concepts such as measure of curvature, integral geodesic curvature for curves, and so on, and in turn to recover surfaces of bounded curvature.

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**Conformally Invariant Metrics and Quasiconformal Mappings** Parisa Hariri, Riku Klén, Matti Vuorinen, 2020-04-11. This book is an introduction to the theory of quasiconformal and quasiregular mappings in the euclidean  $n$ -dimensional space where  $n$  is greater than 2. There are many ways to develop this theory as the literature shows. The authors' approach is based on the use of metrics in particular conformally invariant metrics which will have a key role throughout the whole book. The intended readership consists of mathematicians from beginning graduate students to researchers. The prerequisite requirements are modest; only some familiarity with basic ideas of real and complex analysis is expected.

**In the Tradition of Ahlfors-Bers, VII** Ara S. Basmajian, Yair N. Minsky, Alan W. Reid, 2017-08-17. The Ahlfors-Bers Colloquia commemorate the mathematical legacy of Lars Ahlfors and Lipman Bers. The core of this legacy lies in the fields of geometric function theory, Teichmüller theory, hyperbolic geometry, and partial differential equations. Today we see the influence of Ahlfors and Bers on algebraic geometry, mathematical physics, dynamics, probability, geometric group theory, number theory, and topology. Recent years have seen a flowering of this legacy with an increased interest in their work. This current volume contains articles on a wide variety of subjects that are central to this legacy. These include papers in

Kleinian groups classical Riemann surface theory Teichmüller theory mapping class groups geometric group theory and statistical mechanics      Lectures on Kähler Groups Pierre Py, 2025-03-25 An introduction to the state of the art in the study of Kähler groups This book gives an authoritative and up to date introduction to the study of fundamental groups of compact Kähler manifolds known as Kähler groups Approaching the subject from the perspective of a geometric group theorist Pierre Py equips readers with the necessary background in both geometric group theory and Kähler geometry covering topics such as the actions of Kähler groups on spaces of nonpositive curvature the large scale geometry of infinite covering spaces of compact Kähler manifolds and the topology of level sets of pluriharmonic functions Presenting the most important results from the past three decades the book provides graduate students and researchers with detailed original proofs of several central theorems including Gromov and Schoen's description of Kähler group actions on trees the study of solvable quotients of Kähler groups following the works of Arapura Beauville Campana Delzant and Nori and Napier and Ramachandran's work characterizing covering spaces of compact Kähler manifolds having many ends It also describes without proof many of the recent breakthroughs in the field Lectures on Kähler Groups also gives in eight appendixes detailed introductions to such topics as the study of ends of groups and spaces groups acting on trees and Hilbert spaces potential theory and  $L^2$  cohomology on Riemannian manifolds      Canonical Wick Rotations in 3-Dimensional Gravity R. Benedetti, Francesco Bonsante, 2009-03-06 The authors develop a canonical Wick rotation rescaling theory in 3 dimensional gravity This includes a simultaneous classification this shows how maximal globally hyperbolic spacetimes of arbitrary constant curvature which admit a complete Cauchy surface and canonical cosmological time as well as complex projective structures on arbitrary surfaces are all different materializations of more fundamental encoding structures b Canonical geometric correlations this shows how spacetimes of different curvature that share a same encoding structure are related to each other by canonical rescalings and how they can be transformed by canonical Wick rotations in hyperbolic 3 manifolds that carry the appropriate asymptotic projective structure Both Wick rotations and rescalings act along the canonical cosmological time and have universal rescaling functions These correlations are functorial with respect to isomorphisms of the respective geometric categories      Geometry and Dynamics in Gromov Hyperbolic Metric Spaces Tushar Das, David Simmons, Mariusz Urbański, 2017-04-14 This book presents the foundations of the theory of groups and semigroups acting isometrically on Gromov hyperbolic metric spaces Particular emphasis is paid to the geometry of their limit sets and on behavior not found in the proper setting The authors provide a number of examples of groups which exhibit a wide range of phenomena not to be found in the finite dimensional theory The book contains both introductory material to help beginners as well as new research results and closes with a list of attractive unsolved problems      **The Asian Journal of Mathematics** , 2006

**Geometric Group Theory** Cornelia Druțu, Michael Kapovich, 2018-03-28 The key idea in geometric group theory is to study infinite groups by endowing them with a metric and treating them as geometric spaces This applies to many groups

naturally appearing in topology geometry and algebra such as fundamental groups of manifolds groups of matrices with integer coefficients etc The primary focus of this book is to cover the foundations of geometric group theory including coarse topology ultralimits and asymptotic cones hyperbolic groups isoperimetric inequalities growth of groups amenability Kazhdan's Property T and the Haagerup property as well as their characterizations in terms of group actions on median spaces and spaces with walls The book contains proofs of several fundamental results of geometric group theory such as Gromov's theorem on groups of polynomial growth Tits's alternative Stallings's theorem on ends of groups Dunwoody's accessibility theorem the Mostow Rigidity Theorem and quasiisometric rigidity theorems of Tukia and Schwartz This is the first book in which geometric group theory is presented in a form accessible to advanced graduate students and young research mathematicians It fills a big gap in the literature and will be used by researchers in geometric group theory and its applications

Pure Metric Geometry Anton Petrunin, 2023-11-21 This book serves as an introductory asset for learning metric geometry by delivering an in depth examination of key constructions and providing an analysis of universal spaces injective spaces the Gromov Hausdorff convergence and ultralimits This book illustrates basic examples of domestic affairs of metric spaces this includes Alexandrov geometry geometric group theory metric measure spaces and optimal transport Researchers in metric geometry will find this book appealing and helpful in addition to graduate students in mathematics and advanced undergraduate students in need of an introduction to metric geometry Any previous knowledge of classical geometry differential geometry topology and real analysis will be useful in understanding the presented topics

Handbook of Discrete and Computational Geometry, Second Edition Csaba D. Toth, Joseph O'Rourke, Jacob E. Goodman, 2004-04-13 While high quality books and journals in this field continue to proliferate none has yet come close to matching the Handbook of Discrete and Computational Geometry which in its first edition quickly became the definitive reference work in its field But with the rapid growth of the discipline and the many advances made over the past seven years it's time to bring this standard setting reference up to date Editors Jacob E Goodman and Joseph O'Rourke reassembled their stellar panel of contributors added many more and together thoroughly revised their work to make the most important results and methods both classic and cutting edge accessible in one convenient volume Now over more than 1500 pages the Handbook of Discrete and Computational Geometry Second Edition once again provides unparalleled authoritative coverage of theory methods and applications Highlights of the Second Edition Thirteen new chapters Five on applications and others on collision detection nearest neighbors in high dimensional spaces curve and surface reconstruction embeddings of finite metric spaces polygonal linkages the discrepancy method and geometric graph theory Thorough revisions of all remaining chapters Extended coverage of computational geometry software now comprising two chapters one on the LEDA and CGAL libraries the other on additional software Two indices An Index of Defined Terms and an Index of Cited Authors Greatly expanded bibliographies

**Colloquium Publications** Cornelia Druţu, Michael Kapovich, 2018

**Topics in Clifford Analysis** Swanhild

Bernstein,2019-10-15 Quaternionic and Clifford analysis are an extension of complex analysis into higher dimensions The unique starting point of Wolfgang Sprossig's work was the application of quaternionic analysis to elliptic differential equations and boundary value problems Over the years Clifford analysis has become a broad based theory with a variety of applications both inside and outside of mathematics such as higher dimensional function theory algebraic structures generalized polynomials applications of elliptic boundary value problems wavelets image processing numerical and discrete analysis The aim of this volume is to provide an essential overview of modern topics in Clifford analysis presented by specialists in the field and to honor the valued contributions to Clifford analysis made by Wolfgang Sprossig throughout his career **Recent**

**Applications of Harmonic Analysis to Function Spaces, Differential Equations, and Data Science** Isaac

Pesenson,Quoc Thong Le Gia,Azita Mayeli,Hrushikesh Mhaskar,Ding-Xuan Zhou,2017-08-09 The second of a two volume set on novel methods in harmonic analysis this book draws on a number of original research and survey papers from well known specialists detailing the latest innovations and recently discovered links between various fields Along with many deep theoretical results these volumes contain numerous applications to problems in signal processing medical imaging geodesy statistics and data science The chapters within cover an impressive range of ideas from both traditional and modern harmonic analysis such as the Fourier transform Shannon sampling frames wavelets functions on Euclidean spaces analysis on function spaces of Riemannian and sub Riemannian manifolds Fourier analysis on manifolds and Lie groups analysis on combinatorial graphs sheaves co sheaves and persistent homologies on topological spaces Volume II is organized around the theme of recent applications of harmonic analysis to function spaces differential equations and data science covering topics such as The classical Fourier transform the non linear Fourier transform FBI transform cardinal sampling series and translation invariant linear systems Recent results concerning harmonic analysis on non Euclidean spaces such as graphs and partially ordered sets Applications of harmonic analysis to data science and statistics Boundary value problems for PDE s including the Runge Walsh theorem for the oblique derivative problem of physical geodesy



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