

**Renormalization and 3-Manifolds  
which Fiber over the Circle**

BY

**CURTIS T. McMULLEN**

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# Renormalization And 3 Manifolds Which Fiber Over The Circle

**Ken'ichi Ohshika, Athanase  
Papadopoulos**



## **Renormalization And 3 Manifolds Which Fiber Over The Circle:**

*Renormalization and 3-manifolds which Fiber Over the Circle* Curtis T. McMullen, 1996-07-28 Many parallels between complex dynamics and hyperbolic geometry have emerged in the past decade Building on work of Sullivan and Thurston this book gives a unified treatment of the construction of fixed points for renormalization and the construction of hyperbolic 3 manifolds fibering over the circle Both subjects are studied via geometric limits and rigidity This approach shows open hyperbolic manifolds are inflexible and yields quantitative counterparts to Mostow rigidity In complex dynamics it motivates the construction of towers of quadratic like maps and leads to a quantitative proof of convergence of renormalization

Renormalization and 3-Manifolds Which Fiber over the Circle Curtis T. McMullen, 2014-09-08 Many parallels between complex dynamics and hyperbolic geometry have emerged in the past decade Building on work of Sullivan and Thurston this book gives a unified treatment of the construction of fixed points for renormalization and the construction of hyperbolic 3 manifolds fibering over the circle Both subjects are studied via geometric limits and rigidity This approach shows open hyperbolic manifolds are inflexible and yields quantitative counterparts to Mostow rigidity In complex dynamics it motivates the construction of towers of quadratic like maps and leads to a quantitative proof of convergence of renormalization

**Topology and Geometry of Manifolds** Gordana Matic, Clint McCrory, 2003 Since 1961 the Georgia Topology Conference has been held every eight years to discuss the newest developments in topology The goals of the conference are to disseminate new and important results and to encourage interaction among topologists who are in different stages of their careers Invited speakers are encouraged to aim their talks to a broad audience and several talks are organized to introduce graduate students to topics of current interest Each conference results in high quality surveys new research and lists of unsolved problems some of which are then formally published Continuing in this 40 year tradition the AMS presents this volume of articles and problem lists from the 2001 conference Topics covered include symplectic and contact topology foliations and laminations and invariants of manifolds and knots Articles of particular interest include John Etnyre's Introductory Lectures on Contact Geometry which is a beautiful expository paper that explains the background and setting for many of the other papers This is an excellent introduction to the subject for graduate students in neighboring fields Etnyre and Lenhard Ng's Problems in Low Dimensional Contact Topology and Danny Calegari's extensive paper Problems in Foliations and Laminations of 3 Manifolds are carefully selected problems in keeping with the tradition of the conference They were compiled by Etnyre and Ng and by Calegari with the input of many who were present This book provides material of current interest to graduate students and research mathematicians interested in the geometry and topology of manifolds

**Kleinian Groups and Hyperbolic 3-Manifolds** Y. Komori, V. Markovic, C. Series, 2003-11-10 The subject of Kleinian groups and hyperbolic 3 manifolds is currently undergoing explosively fast development with many old problems and conjectures close to resolution This volume proceedings of the Warwick workshop in September 2001 contains expositions of

many of these breakthroughs including Minsky's lectures on the first half of the proof of the Ending Lamination Conjecture the Bers Density Conjecture by Brock and Bromberg the Tameness Conjecture by Kleiner and Souto the state of the art in cone manifolds by Hodgson and Kerckhoff and the counter example to Thurston's K 2 conjecture by Epstein Marden and Markovic It also contains Jørgensen's famous paper On pairs of once punctured tori in print for the first time The excellent collection of papers here will appeal to graduate students who will find much here to inspire them and established researchers who will find this valuable as a snapshot of current research

*New Research on Three-manifolds and Mathematics* Samuel F. Neilson, 2006 Mathematics has been behind many of humanity's most significant advances in fields as varied as genome sequencing medical science space exploration and computer technology But those breakthroughs were yesterday Where will mathematicians lead us tomorrow and can we help shape that destiny This book assembles carefully selected articles highlighting and explaining cutting edge research and scholarship in mathematics with an emphasis on three manifolds

*The Hyperbolization Theorem for Fibered 3-Manifolds* Jean-Pierre Otal, 2001 For graduate students familiar with low dimensional topology and researchers in geometry and topology Otal CNRS UMR 128 Lyon offers a complete proof of Thurston's hyperbolization theorem for 3 manifolds that fiber as surface bundles The original Le Theoreme d'Hyperbolisation pour les Varietes de Dimension 3 published by the French Mathematical Society in 1996 has been translated by Leslie D Kay c Book News Inc

Collected Works of William P. Thurston with Commentary Benson Farb, David Gabai, Steven P. Kerckhoff, 2023-06-02 William Thurston's work has had a profound influence on mathematics He connected whole mathematical subjects in entirely new ways and changed the way mathematicians think about geometry topology foliations group theory dynamical systems and the way these areas interact His emphasis on understanding and imagination in mathematical learning and thinking are integral elements of his distinctive legacy This four part collection brings together in one place Thurston's major writings many of which are appearing in publication for the first time Volumes I III contain commentaries by the Editors Volume IV includes a preface by Steven P Kerckhoff Volume II contains William Thurston's papers on the geometry and topology of 3 manifolds on complexity constructions and computers and on geometric group theory

**Handbook of Geometric Topology** R.B. Sher, R.J. Daverman, 2001-12-20 Geometric Topology is a foundational component of modern mathematics involving the study of spatial properties and invariants of familiar objects such as manifolds and complexes This volume which is intended both as an introduction to the subject and as a wide ranging resource for those already grounded in it consists of 21 expository surveys written by leading experts and covering active areas of current research They provide the reader with an up to date overview of this flourishing branch of mathematics

Hyperbolic Manifolds Albert Marden, 2016-02 This study of hyperbolic geometry has both pedagogy and research in mind and includes exercises and further reading for each chapter

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 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.

*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.

**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 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 Bo tjan Gabrov ek Sofia Lambropoulou and Maciej Mroczkowski Knot Theory of Lens Spaces 2021      **Dynamics of Discrete Group Action** Boris N.

Apanasov,2024-07-22 Provides the first systematic study of geometry and topology of locally symmetric rank one manifolds and dynamics of discrete action of their fundamental groups In addition to geometry and topology this study involves several other areas of Mathematics from algebra of varieties of groups representations and geometric group theory to geometric analysis including classical questions from function theory      **Lectures on Quasiconformal Mappings** Lars Valerian

Ahlfors,2006-07-14 Lars Ahlfors s Lectures on Quasiconformal Mappings based on a course he gave at Harvard University in the spring term of 1964 was first published in 1966 and was soon recognized as the classic it was shortly destined to become These lectures develop the theory of quasiconformal mappings from scratch give a self contained treatment of the Beltrami equation and cover the basic properties of Teichmuller spaces including the Bers embedding and the Teichmuller curve It is remarkable how Ahlfors goes straight to the heart of the matter presenting major results with a minimum set of prerequisites Many graduate students and other mathematicians have learned the foundations of the theories of quasiconformal mappings and Teichmuller spaces from these lecture notes This edition includes three new chapters The first written by Earle and Kra describes further developments in the theory of Teichmuller spaces and provides many references to the vast literature on Teichmuller spaces and quasiconformal mappings The second by Shishikura describes how quasiconformal mappings have revitalized the subject of complex dynamics The third by Hubbard illustrates the role of these mappings in Thurston s theory of hyperbolic structures on 3 manifolds Together these three new chapters exhibit the continuing vitality and importance of the theory of quasiconformal mappings      **The Poincare Conjecture** James Carlson,2014-10-16 The conference to

celebrate the resolution of the Poincare conjecture which is one of the Clay Mathematics Institute s seven Millennium Prize Problems was held at the Institut Henri Poincare in Paris Several leading mathematicians gave lectures providing an overview of the conjecture its history its influence on the development of mathematics and finally its proof This volume contains papers based on the lectures at that conference Taken together they form an extraordinary record of the work that went into the solution of one of the great problems of mathematics      **The Ricci Flow: Techniques and Applications**

,2007-04-11 This book gives a presentation of topics in Hamilton s Ricci flow for graduate students and mathematicians interested in working in the subject The authors have aimed at presenting technical material in a clear and detailed manner In this volume geometric aspects of the theory have been emphasized The book presents the theory of Ricci solitons Kahler Ricci flow compactness theorems Perelman s entropy monotonicity and no local collapsing Perelman s reduced distance function and applications to ancient solutions and a primer of 3 manifold topology Various technical aspects of Ricci flow have been explained in a clear and detailed manner The authors have tried to make some advanced material accessible to graduate students and nonexperts The book gives a rigorous introduction to Perelman s work and explains technical aspects

of Ricci flow useful for singularity analysis Throughout there are appropriate references so that the reader may further pursue the statements and proofs of the various results      *Differential Equations and Dynamical Systems* Antonio Galves, Jack K. Hale, Carlos Rocha, 2002-01-01 This volume contains contributed papers authored by participants of a Conference on Differential Equations and Dynamical Systems which was held at the Instituto Superior Tecnico Lisbon Portugal The conference brought together a large number of specialists in the area of differential equations and dynamical systems and provided an opportunity to celebrate Professor Waldyr Oliva s 70th birthday honoring his fundamental contributions to the field The volume constitutes an overview of the current research over a wide range of topics extending from qualitative theory for ordinary partial or functional differential equations to hyperbolic dynamics and ergodic theory

**Graphs and Patterns in Mathematics and Theoretical Physics** Mikhail Lyubich, Leon Armenovich Takhtadzhian, 2005 The Stony Brook Conference Graphs and Patterns in Mathematics and Theoretical Physics was dedicated to Dennis Sullivan in honor of his sixtieth birthday The event s scientific content which was suggested by Sullivan was largely based on mini courses and survey lectures The main idea was to help researchers and graduate students in mathematics and theoretical physics who encounter graphs in their research to overcome conceptual barriers The collection begins with Sullivan s paper Sigma models and string topology which describes a background algebraic structure for the sigma model based on algebraic topology and transversality Other contributions to the volume were organized into five sections Feynman Diagrams Algebraic Structures Manifolds Invariants and Mirror Symmetry Combinatorial Aspects of Dynamics and Physics These sections along with more research oriented articles contain the following surveys Feynman diagrams for pedestrians and mathematicians by M Polyak Notes on universal algebra by A Voronov Unimodal maps and hierarchical models by M Yampolsky and Quantum geometry in action big bang and black holes by A Ashtekar This comprehensive volume is suitable for graduate students and research mathematicians interested in graph theory and its applications in mathematics and physics      *Collected Papers of John Milnor* John Willard Milnor, 1994      *Proceedings of the International Congress of Mathematicians* S.D. Chatterji, 2012-12-06 Since the first ICM was held in Zurich in 1897 it has become the pinnacle of mathematical gatherings It aims at giving an overview of the current state of different branches of mathematics and its applications as well as an insight into the treatment of special problems of exceptional importance The proceedings of the ICMs have provided a rich chronology of mathematical development in all its branches and a unique documentation of contemporary research They form an indispensable part of every mathematical library The Proceedings of the International Congress of Mathematicians 1994 held in Zurich from August 3rd to 11th 1994 are published in two volumes Volume I contains an account of the organization of the Congress the list of ordinary members the reports on the work of the Fields Medalists and the Nevanlinna Prize Winner the plenary one hour addresses and the invited addresses presented at Section Meetings 1-6 Volume II contains the invited address for Section Meetings 7-19 A complete author index is included in

both volumes the content of these impressive two volumes sheds a certain light on the present state of mathematical sciences and anybody doing research in mathematics should look carefully at these Proceedings For young people beginning research this is even more important so these are a must for any serious mathematics library The graphical presentation is as always with Birkh user excellent Revue Roumaine de Mathematiques pures et Appliqu es



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