

Graduate Texts in Mathematics

**Colin Maclachlan
Alan W. Reid**

The Arithmetic of Hyperbolic 3-Manifolds



Springer

Arithmetic Of Hyperbolic 3 Manifolds

Samuel F. Neilson



Arithmetic Of Hyperbolic 3 Manifolds:

The Arithmetic of Hyperbolic 3-Manifolds Colin Maclachlan, Alan W. Reid, 2003 Recently there has been considerable interest in developing techniques based on number theory to attack problems of 3 manifolds Contains many examples and lots of problems Brings together much of the existing literature of Kleinian groups in a clear and concise way At present no such text exists The Arithmetic of Hyperbolic 3-Manifolds Colin Maclachlan, Alan W. Reid, 2013-04-17 For the past 25 years the Geometrization Program of Thurston has been a driving force for research in 3 manifold topology This has inspired a surge of activity investigating hyperbolic 3 manifolds and Kleinian groups as these manifolds form the largest and least well understood class of compact 3 manifolds Familiar and new tools from diverse areas of mathematics have been utilized in these investigations from topology geometry analysis group theory and from the point of view of this book algebra and number theory This book is aimed at readers already familiar with the basics of hyperbolic 3 manifolds or Kleinian groups and it is intended to introduce them to the interesting connections with number theory and the tools that will be required to pursue them While there are a number of texts which cover the topological geometric and analytical aspects of hyperbolic 3 manifolds this book is unique in that it deals exclusively with the arithmetic aspects which are not covered in other texts Colin Maclachlan is a Reader in the Department of Mathematical Sciences at the University of Aberdeen in Scotland where he has served since 1968 He is a former President of the Edinburgh Mathematical Society Alan Reid is a Professor in the Department of Mathematics at The University of Texas at Austin He is a former Royal Society University Research Fellow Alfred P Sloan Fellow and winner of the Sir Edmund Whittaker Prize from The Edinburgh Mathematical Society Both authors have published extensively in the general area of discrete groups hyperbolic manifolds and low dimensional topology

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 *Arithmetic L-Functions and Differential Geometric Methods* Pierre Charollois, Gerard Freixas i Montplet, Vincent Maillot, 2021-05-17 This book is an outgrowth of the conference Regulators IV An International Conference on Arithmetic L functions and Differential Geometric Methods that was held in Paris in May 2016 Gathering contributions by leading experts in the field ranging from original surveys to pure research articles this volume provides comprehensive coverage of the front most developments in the field of regulator maps Key topics covered are Additive polylogarithms Analytic torsions Chabauty Kim theory Local Grothendieck Riemann Roch theorems Periods Syntomic regulator The book contains contributions by M Asakura J Balakrishnan A Besser A Best F Bianchi O Gregory A Langer B Lawrence X Ma S Müller N Otsu J Raimbault W Raskin D Rössler S Shen N Triantafyllou S

nver and J Vonk , **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 J rgensen 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 **Topology and Geometry in Dimension Three** Weiping Li,2011 This volume contains the proceedings of a conference held from June 4-6 2010 at Oklahoma State University in honor of William Thurston s 70th birthday His contributions to research in low dimensional geometry and topology and to the American mathematical community especially through his work for the American Mathematical Society were recognized during the conference The focus of the conference was on triangulations and geometric structures for three dimensional manifolds The papers in this volume present significant new results on these topics as well as in geometric group theory **Topology '90** Boris N. Apanasov,Walter D. Neumann,Alan W. Reid,Laurent Siebenmann,2011-10-13 No detailed description available for Topology 90 *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 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 Urba ski and Anna Zdunik Random and Conformal Dynamical Systems 2021 Ioannis Diamantis Bo tján Gabrov ek Sofia Lambropoulou and Maciej Mroczkowski Knot Theory of Lens Spaces 2021 **Algorithmic Topology and Classification of 3-Manifolds** Sergei Matveev,2013-04-17 The book is devoted to algorithmic low dimensional topology This branch of mathematics has recently been undergoing an intense development On

the one hand the exponential advancement of computer technologies has made it possible to conduct sophisticated computer experiments and to implement algorithmic solutions which have in turn provided a motivation to search for new and better algorithms On the other hand low dimensional topology has received an additional boost because of the discovery of numerous connections with theoretical physics There is also another deep reason why algorithmic topology has received a lot of attention It is that a search for algorithmic solutions generally proves to be a rich source of well stated mathematical problems Speaking out of my experience it seems that an orientation towards how to rather than just how is serves as a probing stone for choosing among possible directions of research much like problems in mechanics led once to the development of calculus

Characters in Low-Dimensional Topology Olivier Collin, Stefan Friedl, Cameron Gordon, Stephan Tillmann, Liam Watson, 2020-12-14 This volume contains the proceedings of a conference celebrating the work of Steven Boyer held from June 2 6 2018 at Universit du Qu bec Montr al Montr al Qu bec Canada Boyer s contributions to research in low dimensional geometry and topology and to the Canadian mathematical community were recognized during the conference The articles cover a broad range of topics related but not limited to the topology and geometry of 3 manifolds properties of their fundamental groups and associated representation varieties

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 Teichm ller 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 Teichm ller theory mapping class groups geometric group theory and statistical mechanics

Metric and Differential Geometry Xianzhe Dai, Xiaochun Rong, 2012-06-01 Metric and Differential Geometry grew out of a similarly named conference held at Chern Institute of Mathematics Tianjin and Capital Normal University Beijing The various contributions to this volume cover a broad range of topics in metric and differential geometry including metric spaces Ricci flow Einstein manifolds K hler geometry index theory hypoelliptic Laplacian and analytic torsion It offers the most recent advances as well as surveys the new developments Contributors M T Anderson J M Bismut X Chen X Dai R Harvey P Koskela B Lawson X Ma R Melrose W M ller A Naor J Simons C Sormani D Sullivan S Sun G Tian K Wildrick W Zhang

Geometric topology William Hilal Kazez, 1997 This is Part 2 of a two part volume reflecting the proceedings of the 1993 Georgia International Topology Conference held at the University of Georgia during the month of August The texts include research and expository articles and problem sets The conference covered a wide variety of topics in geometric topology Kirby s problem list which contains a thorough description of the progress made on each of the problems and includes a very complete bibliography makes the

work useful for specialists and non specialists who want to learn about the progress made in many areas of topology This list may serve as a reference work for decades to come Gabai s problem list which focuses on foliations and laminations of 3 manifolds collects for the first time in one paper definitions results and problems that may serve as a defining source in the subject area

Post-Quantum Cryptography Ruben Niederhagen,Markku-Juhani O. Saarinen,2025-03-24 The two volume set LNCS 15577 15578 constitutes the proceedings of the 16th International Workshop on Post Quantum Cryptography PQCrypto 2025 held in Taipei Taiwan during April 8 10 2025 The 25 full papers presented in the proceedings were carefully selected and reviewed from 59 submissions The papers have been organized in the following topical sections Part I Code Based Cryptography Multivariate Cryptography Lattice Based Cryptography Part II Isogeny Based Cryptography Cryptanalysis Quantum Security Side Channel Attacks Security Notions

In the Tradition of Ahlfors-Bers, V Mario Bonk,2010 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 However the work of Ahlfors and Bers has impacted and created interactions with many other fields of mathematics such as algebraic geometry dynamical systems topology geometric group theory mathematical physics and number theory 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 translation surfaces algebraic geometry and dynamics The majority of the papers present new research but there are survey articles as well

Cohomology of Arithmetic Groups James W. Cogdell,Günter Harder,Stephen Kudla,Freydoon Shahidi,2018-08-18 This book discusses the mathematical interests of Joachim Schwermer who throughout his career has focused on the cohomology of arithmetic groups automorphic forms and the geometry of arithmetic manifolds To mark his 66th birthday the editors brought together mathematical experts to offer an overview of the current state of research in these and related areas The result is this book with contributions ranging from topology to arithmetic It probes the relation between cohomology of arithmetic groups and automorphic forms and their L functions and spans the range from classical Bianchi groups to the theory of Shimura varieties It is a valuable reference for both experts in the fields and for graduate students and postdocs wanting to discover where the current frontiers lie

Mathematics Unlimited - 2001 and Beyond Björn Engquist,Wilfried Schmid,2017-04-05 This is a book guaranteed to delight the reader It not only depicts the state of mathematics at the end of the century but is also full of remarkable insights into its future development as we enter a new millennium True to its title the book extends beyond the spectrum of mathematics to include contributions from other related sciences You will enjoy reading the many stimulating contributions and gain insights into the astounding progress of mathematics and the perspectives for its future One of the editors Björn Engquist is a world renowned researcher in computational science and engineering The second editor Wilfried Schmid is a distinguished

mathematician at Harvard University Likewise the authors are all foremost mathematicians and scientists and their biographies and photographs appear at the end of the book Unique in both form and content this is a must read for every mathematician and scientist and in particular for graduates still choosing their specialty

Thin Groups and Superstrong Approximation Emmanuel Breuillard, Hee Oh, 2014-02-17 This collection of survey articles focuses on recent developments at the boundary between geometry dynamical systems number theory and combinatorics

Topics in Physical Mathematics Kishore Marathe, 2010-08-09 As many readers will know the 20th century was a time when the fields of mathematics and the sciences were seen as two separate entities Caused by the rapid growth of the physical sciences and an increasing abstraction in mathematical research each party physicists and mathematicians alike suffered a misconception not only of the opposition's theoretical underpinning but of how the two subjects could be intertwined and effectively utilized One sub discipline that played a part in the union of the two subjects is Theoretical Physics Breaking it down further came the fundamental theories Relativity and Quantum theory and later on Yang Mills theory Other areas to emerge in this area are those derived from the works of Donaldson Chern Simons Floer Fukaya and Seiberg Witten Aimed at a wide audience Physical Topics in Mathematics demonstrates how various physical theories have played a crucial role in the developments of Mathematics and in particular Geometric Topology Issues are studied in great detail and the book steadfastly covers the background of both Mathematics and Theoretical Physics in an effort to bring the reader to a deeper understanding of their interaction Whilst the world of Theoretical Physics and Mathematics is boundless it is not the intention of this book to cover its enormity Instead it seeks to lead the reader through the world of Physical Mathematics leaving them with a choice of which realm they wish to visit next

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