

Volume 21

Geometric Group Theory

Mladen Bestvina Michah Sageev Karen Vogtmann Editors





American Mathematical Society Institute for Advanced Study

Geometric Group Theory Iaspark City Mathematics Series

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Geometric Group Theory Iaspark City Mathematics Series:

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 Structure and Regularity of Group Actions on One-Manifolds Sang-hyun Kim, Thomas Koberda, 2021-11-19 This book presents the theory of optimal and critical regularities of groups of diffeomorphisms from the classical work of Denjoy and Herman up through recent advances Beginning with an investigation of regularity phenomena for single diffeomorphisms the book goes on to describes a circle of ideas surrounding Filipkiewicz s Theorem which recovers the smooth structure of a manifold from its full diffeomorphism group Topics covered include the simplicity of homeomorphism groups differentiability of continuous Lie group actions smooth conjugation of diffeomorphism groups and the reconstruction of spaces from group actions Various classical and modern tools are developed for controlling the dynamics of general finitely generated group actions on one dimensional manifolds subject to regularity bounds including material on Thompson's group F nilpotent groups right angled Artin groups chain groups finitely generated groups with prescribed critical regularities and applications to foliation theory and the study of mapping class groups The book will be of interest to researchers in geometric group theory Geometric Group Theory Mladen Bestvina, 2014 Cover Title page Contents Preface Introduction CAT 0 cube complexes and groups Geometric small cancellation Lectures on proper CAT 0 spaces and their isometry groups Lectures on quasi isometric rigidity Geometry of outer space Some arithmetic groups that do not act on the circle Lectures on lattices and locally symmetric spaces Lectures on marked length spectrum rigidity Expander graphs property and approximate groups Cube complexes subgroups of mapping class groups and nilpotent genus

Back Cover Geometric Group Theory Cornelia Druţu, 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 Geometry and Quantum Field Theory Daniel S. Freed, Karen K. Uhlenbeck, 1995 Exploring topics from applications classical and quantum mechanics and field theory this book is based on lectures presented in the Graduate Summer School at the Regional Geometry Institute in Park City Utah in 1991 The chapter by Bryant treats Lie groups and symplectic geometry examining not only the connection with mechanics but also the application to differential equations and the recent work of the Gromov school Rabin's discussion of quantum mechanics and field theory is specifically aimed at mathematicians Alvarez describes the application of supersymmetry to prove the Atiyah Singer index theorem touching on ideas that also underlie more complicated applications of supersymmetry Quinn's account of the topological quantum field theory captures the formal aspects of the path integral and shows how these ideas can influence branches of mathematics which at first glance may not seem connected Presenting material at a level between that of textbooks and research papers much of the book would provide excellent material for graduate courses The book provides an entree into a field that promises to remain exciting and important for years to come Algebraic Groups and Number Theory: Volume 1 Vladimir Platonov, Andrei Rapinchuk, Igor Rapinchuk, 2023-09-07 The first edition of this book provided the first systematic exposition of the arithmetic theory of algebraic groups This revised second edition now published in two volumes retains the same goals while incorporating corrections and improvements as well as new material covering more recent developments Volume I begins with chapters covering background material on number theory algebraic groups and cohomology both abelian and non abelian and then turns to algebraic groups over locally compact fields The remaining two chapters provide a detailed treatment of arithmetic subgroups and reduction theory in both the real and adelic settings Volume I includes new material on groups with bounded generation and abstract arithmetic groups With minimal prerequisites and complete proofs given whenever possible this book is suitable for self study for graduate students wishing to learn the subject as well as a reference for researchers in number theory algebraic geometry and related areas Geometry of Moduli Spaces and Representation Theory Roman Bezrukavnikov, Alexander Braverman, Zhiwei Yun, 2017-12-15 This book is based on lectures given at the Graduate Summer School of the 2015 Park City Mathematics Institute program Geometry of moduli spaces and representation theory and is devoted to several interrelated topics in algebraic geometry topology of algebraic varieties and representation theory Geometric representation theory is a young but fast developing research area at the intersection of these subjects An early profound achievement was the famous conjecture by Kazhdan Lusztig about characters of highest weight modules over a complex semi simple Lie algebra and its subsequent proof by Beilinson Bernstein and Brylinski Kashiwara Two remarkable features of this proof have inspired much of subsequent development intricate algebraic data turned out to be encoded in topological invariants of singular geometric spaces while proving this fact required deep general theorems from algebraic geometry Another focus of the program was enumerative algebraic geometry Recent progress showed the role of Lie theoretic structures in problems such as calculation of quantum cohomology K theory etc Although the motivation and technical background of these constructions is quite different from that of geometric Langlands duality both theories deal with topological invariants of moduli spaces of maps from a target of complex dimension one Thus they are at least heuristically related while several recent works indicate possible strong technical connections. The main goal of this collection of notes is to provide young researchers and experts alike with an introduction to these areas of active research and promote interaction between the two related directions Representation Theory and Algebraic Geometry Vladimir Baranovsky, Nicolas Guay, Travis Schedler, 2022-06-15 The chapters in this volume explore the influence of the Russian school on the development of algebraic geometry and representation theory particularly the pioneering work of two of its illustrious members Alexander Beilinson and Victor Ginzburg in celebration of their 60th birthdays Based on the work of speakers and invited participants at the conference Interactions Between Representation Theory and Algebraic Geometry held at the University of Chicago August 21 25 2017 this volume illustrates the impact of their research and how it has shaped the development of various branches of mathematics through the use of D modules the affine Grassmannian symplectic algebraic geometry and other topics All authors have been deeply influenced by their ideas and present here cutting edge developments on modern topics Chapters are organized around three distinct themes Groups algebras categories and representation theory D modules and perverse sheaves Analogous varieties defined by quivers Representation Theory and Algebraic Geometry will be an ideal resource for researchers who work in the area particularly those interested in exploring Algebraic Geometry: Salt Lake City 2015 Tommaso de Fernex, Brendan Hassett, Mircea the impact of the Russian school Mustață, Martin Olsson, Mihnea Popa, Richard Thomas, 2018-06-01 This is Part 1 of a two volume set Since Oscar Zariski organized a meeting in 1954 there has been a major algebraic geometry meeting every decade Woods Hole 1964 Arcata 1974 Bowdoin 1985 Santa Cruz 1995 and Seattle 2005 The American Mathematical Society has supported these summer institutes

for over 50 years Their proceedings volumes have been extremely influential summarizing the state of algebraic geometry at the time and pointing to future developments The most recent Summer Institute in Algebraic Geometry was held July 2015 at the University of Utah in Salt Lake City sponsored by the AMS with the collaboration of the Clay Mathematics Institute This volume includes surveys growing out of plenary lectures and seminar talks during the meeting Some present a broad overview of their topics while others develop a distinctive perspective on an emerging topic Topics span both complex algebraic geometry and arithmetic questions specifically analytic techniques enumerative geometry moduli theory derived categories birational geometry tropical geometry Diophantine questions geometric representation theory characteristic and adic tools etc The resulting articles will be important references in these areas for years to come Geometry and Analysis, Volume 3 Michael Pevzner, Hideko Sekiguchi, 2025-02-10 Symmetry in Geometry and Analysis is a Festschrift honoring Toshiyuki Kobayashi The three volumes feature 35 selected contributions from invited speakers of twin conferences held in June 2022 in Reims France and in September 2022 in Tokyo Japan These contributions highlight the profound impact of Prof Kobayashi s pioneering ideas groundbreaking discoveries and significant achievements in the development of analytic representation theory noncommutative harmonic analysis and the geometry of discontinuous groups beyond the Riemannian context among other areas over the past four decades This third volume of the Festschrift contains original articles on branching problems in representation theory of reductive Lie groups and related topics Contributions are by Ali Baklouti Hidenori Fujiwara Dmitry Gourevitch Masatoshi Kitagawa Salma Nasrin Yoshiki Oshima and Petr Somberg

Lie Groups and Geometric Aspects of Isometric Actions Marcos M. Alexandrino, Renato G. Bettiol, 2015-05-22 This book provides quick access to the theory of Lie groups and isometric actions on smooth manifolds using a concise geometric approach After a gentle introduction to the subject some of its recent applications to active research areas are explored keeping a constant connection with the basic material The topics discussed include polar actions singular Riemannian foliations cohomogeneity one actions and positively curved manifolds with many symmetries This book stems from the experience gathered by the authors in several lectures along the years and was designed to be as self contained as possible It is intended for advanced undergraduates graduate students and young researchers in geometry and can be used for a one semester course or independent study **Geometric Representation Theory and Gauge Theory* Alexander**

Braverman, Michael Finkelberg, Andrei Negut, Alexei Oblomkov, 2019-11-22 This book offers a review of the vibrant areas of geometric representation theory and gauge theory which are characterized by a merging of traditional techniques in representation theory with the use of powerful tools from algebraic geometry and with strong inputs from physics The notes are based on lectures delivered at the CIME school Geometric Representation Theory and Gauge Theory held in Cetraro Italy in June 2018 They comprise three contributions due to Alexander Braverman and Michael Finkelberg Andrei Negut and Alexei Oblomkov respectively Braverman and Finkelberg's notes review the mathematical theory of the Coulomb branch of

3D N 4 quantum gauge theories The purpose of Negut s notes is to study moduli spaces of sheaves on a surface as well as Hecke correspondences between them Oblomkov s notes concern matrix factorizations and knot homology This book will appeal to both mathematicians and theoretical physicists and will be a source of inspiration for PhD students and researchers

Symmetry in Geometry and Analysis, Volume 2 Michael Pevzner, Hideko Sekiguchi, 2025-02-10 Symmetry in Geometry and Analysis is a Festschrift honoring Toshiyuki Kobayashi The three volumes feature 35 selected contributions from invited speakers of twin conferences held in June 2022 in Reims France and in September 2022 in Tokyo Japan These contributions highlight the profound impact of Prof Kobayashi s pioneering ideas groundbreaking discoveries and significant achievements in the development of analytic representation theory noncommutative harmonic analysis and the geometry of discontinuous groups beyond the Riemannian context among other areas over the past four decades This second volume of the Festschrift contains original articles on analytic methods in representation theory of reductive Lie groups and related topics Contributions are by Salem Ben Sa d Valentina Casarino Paolo Ciatti Jean Louis Clerc Jan Frahm Joachim Hilgert Toshihisa Kubo Khalid Koufany Quentin Labriet Karl Hermann Neeb Yury Neretin Gestur lafsson Bent rsted Toshio Oshima Birgit Speh Jorge Vargas and Clemens Weiske Mirror Symmetry and Algebraic Geometry David A. Cox, Sheldon Katz, 1999 Mirror symmetry began when theoretical physicists made some astonishing predictions about rational curves on quintic hypersurfaces in four dimensional projective space Understanding the mathematics behind these predictions has been a substantial challenge This book is the first completely comprehensive monograph on mirror symmetry covering the original observations by the physicists through the most recent progress made to date Subjects discussed include toric varieties Hodge theory Kahler geometry moduli of stable maps Calabi Yau manifolds quantum cohomology Gromov Witten invariants and the mirror theorem This title features numerous examples worked out in detail an appendix on mathematical physics an exposition of the algebraic theory of Gromov Witten invariants and quantum cohomology and a proof of the mirror theorem for the quintic threefold **Representation Theory of Lie Groups** Jeffrey Adams, David Vogan, 2015-06-02 This book contains written versions of the lectures given at the PCMI Graduate Summer School on the representation theory of Lie groups The volume begins with lectures by A Knapp and P Trapa outlining the state of the subject around the year 1975 specifically the fundamental results of Harish Chandra on the general structure of infinite dimensional representations and the Langlands classification Additional contributions outline developments in four of the most active areas of research over the past 20 years The clearly written articles present results to date as follows R Zierau and L Barchini discuss the construction of representations on Dolbeault cohomology spaces D Vogan describes the status of the Kirillov Kostant philosophy of coadjoint orbits for unitary representations K Vilonen presents recent advances in the Beilinson Bernstein theory of localization And Jian Shu Li covers Howe s theory of dual reductive pairs Each contributor to the volume presents the topics in a unique comprehensive and accessible manner geared toward advanced graduate students and researchers

Students should have completed the standard introductory graduate courses for full comprehension of the work The book would also serve well as a supplementary text for a course on introductory infinite dimensional representation 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 The Breadth of Symplectic and Poisson Geometry Jerrold E. Marsden, Tudor S. Ratiu, 2007-07-03 The invited papers in this volume are written in honor of Alan Weinstein one of the world's foremost geometers Contributions cover a broad range of topics in symplectic and differential geometry. Lie theory mechanics and related fields Intended for graduate students and working mathematicians this text is a distillation of prominent research and an indication of future trends in geometry mechanics and mathematical physics **Algebraic Groups and Number Theory** Vladimir Petrovich Platonov, Vladimir Platonov, Andrei Rapinchuk, Igor Rapinchuk, 2023-09-07 The first volume of a two volume book offering a comprehensive account of the arithmetic theory of algebraic groups An Introduction to Lie Groups and the Geometry of Homogeneous Spaces Andreas Arvanitogeorgos, 2003 It is remarkable that so much about Lie groups could be packed into this small book But after reading it students will be well prepared to continue with more advanced graduate level topics in differential geometry or the theory of Lie groups The theory of Lie groups involves many areas of mathematics In this book Arvanitoyeorgos outlines enough of the prerequisites to get the reader started He then chooses a path through this rich and diverse theory that aims for an understanding of the geometry of Lie groups and homogeneous spaces In this way he avoids the extra detail needed for a thorough discussion of other topics Lie groups and homogeneous spaces are especially useful to study in geometry as they provide excellent examples where quantities such as curvature are easier to compute A good understanding of them provides lasting intuition especially in differential geometry. The book is suitable for advanced undergraduates graduate students and research mathematicians interested in differential geometry and neighboring fields such as topology harmonic analysis and mathematical physics **Geometry Transformed: Euclidean Plane Geometry** Based on Rigid Motions James R. King, 2021-04-26 Many paths lead into Euclidean plane geometry Geometry Transformed offers an expeditious yet rigorous route using axioms based on rigid motions and dilations Since transformations are available at the outset interesting theorems can be proved sooner and proofs can be connected to visual and tactile intuition about symmetry and motion The reader thus gains valuable experience thinking with transformations a skill that may be useful in other math courses or applications For students interested in teaching mathematics at the secondary school level this approach is particularly useful since geometry in the Common Core State Standards is based on rigid motions The only prerequisite for this book is a basic understanding of functions Some previous experience with proofs may be helpful but students can also learn about proofs by experiencing them in this book in a context where they can draw and experiment The eleven chapters are organized in a flexible way to suit a variety of curriculum goals In addition to a geometrical core that

includes finite symmetry groups there are additional topics on circles and on crystallographic and frieze groups and a final chapter on affine and Cartesian coordinates The exercises are a mixture of routine problems experiments and proofs

Probability Theory and Applications Elton P. Hsu,S. R. S. Varadhan,1999-01-01 The volume gives a balanced overview of the current status of probability theory An extensive bibliography for further study and research is included This unique collection presents several important areas of current research and a valuable survey reflecting the diversity of the field

Geometric Group Theory Iaspark City Mathematics Series Book Review: Unveiling the Magic of Language

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