

Topics in Geometric Group Theory

Pierre de la Harpe

Topics In Geometric Group Theory Chicago Lectures In Mathematics

Benson Farb



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Topics in Geometric Group Theory Pierre de la Harpe, 2000-09-15 In this book Pierre de la Harpe provides a concise and engaging introduction to geometric group theory a new method for studying infinite groups via their intrinsic geometry that has played a major role in mathematics over the past two decades A recognized expert in the field de la Harpe adopts a hands on approach illustrating key concepts with numerous concrete examples The first five chapters present basic combinatorial and geometric group theory in a unique and refreshing way with an emphasis on finitely generated versus finitely presented groups In the final three chapters de la Harpe discusses new material on the growth of groups including a detailed treatment of the Grigorchuk group Most sections are followed by exercises and a list of problems and complements enhancing the book s value for students problems range from slightly more difficult exercises to open research problems in the field An extensive list of references directs readers to more advanced results as well as connections with other fields

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TOPICS IN GEOMETRIC GROUP THEORY PIERRE AUTOR DE LA HARPE, 2000 Office Hours with a Geometric Group Theorist Matt Clay, Dan Margalit, 2017-07-11 Geometric group theory is the study of the interplay between groups and the spaces they act on and has its roots in the works of Henri Poincaré Felix Klein J H C Whitehead and Max Dehn Office Hours with a Geometric Group Theorist brings together leading experts who provide one on one instruction on key topics in this exciting and relatively new field of mathematics It s like having office hours with your most trusted math professors An essential primer for undergraduates making the leap to graduate work the book begins with free groups actions of free groups on trees algorithmic questions about free groups the ping pong lemma and automorphisms of free groups It goes on to cover several large scale geometric invariants of groups including quasi isometry groups Dehn functions Gromov hyperbolicity and asymptotic dimension It also delves into important examples of groups such as Coxeter groups Thompson s groups right angled Artin groups lamplighter groups mapping class groups and braid groups The tone is conversational throughout and the instruction is driven by examples Accessible to students who have taken a first course in abstract algebra

Office Hours with a Geometric Group Theorist also features numerous exercises and in depth projects designed to engage readers and provide jumping off points for research projects , Problems on Mapping Class Groups and Related Topics Benson Farb,2006-09-12 The appearance of mapping class groups in mathematics is ubiquitous The book presents 23 papers containing problems about mapping class groups the moduli space of Riemann surfaces Teichmüller geometry and related areas Each paper focusses completely on open problems and directions The problems range in scope from specific computations to broad programs The goal is to have a rich source of problems which have been formulated explicitly and accessibly The book is divided into four parts Part I contains problems on the combinatorial and co homological group theoretic aspects of mapping class groups and the way in which these relate to problems in geometry and topology Part II concentrates on connections with classification problems in 3 manifold theory the theory of symplectic 4 manifolds and algebraic geometry A wide variety of problems from understanding billiard trajectories to the classification of Kleinian groups can be reduced to differential and synthetic geometry problems about moduli space Such problems and connections are discussed in Part III Mapping class groups are related both concretely and philosophically to a number of other groups such as braid groups lattices in semisimple Lie groups and automorphism groups of free groups Part IV concentrates on problems surrounding these relationships This book should be of interest to anyone studying geometry topology algebraic geometry or infinite groups It is meant to provide inspiration for everyone from graduate students to senior researchers

Topics in Groups and Geometry Tullio Ceccherini-Silberstein,Michele D'Adderio,2022-01-01 This book provides a detailed exposition of a wide range of topics in geometric group theory inspired by Gromov's pivotal work in the 1980s It includes classical theorems on nilpotent groups and solvable groups a fundamental study of the growth of groups a detailed look at asymptotic cones and a discussion of related subjects including filters and ultrafilters dimension theory hyperbolic geometry amenability the Burnside problem and random walks on groups The results are unified under the common theme of Gromov's theorem namely that finitely generated groups of polynomial growth are virtually nilpotent This beautiful result gave birth to a fascinating new area of research which is still active today The purpose of the book is to collect these naturally related results together in one place most of which are scattered throughout the literature some of them appearing here in book form for the first time In this way the connections between these topics are revealed providing a pleasant introduction to geometric group theory based on ideas surrounding Gromov's theorem The book will be of interest to mature undergraduate and graduate students in mathematics who are familiar with basic group theory and topology and who wish to learn more about geometric analytic and probabilistic aspects of infinite groups **Additive Number Theory** David Chudnovsky,Gregory Chudnovsky,2010-08-26 This impressive volume is dedicated to Mel Nathanson a leading authoritative expert for several decades in the area of combinatorial and additive number theory For several decades Mel Nathanson's seminal ideas and results in combinatorial and additive number theory have influenced graduate students and researchers

alike The invited survey articles in this volume reflect the work of distinguished mathematicians in number theory and represent a wide range of important topics in current research

Fractal Geometry and Stochastics IV Christoph Bandt, Peter Mörters, Martina Zähle, 2010-01-08 Over the last fifteen years fractal geometry has established itself as a substantial mathematical theory in its own right The interplay between fractal geometry analysis and stochastics has highly influenced recent developments in mathematical modeling of complicated structures This process has been forced by problems in these areas related to applications in statistical physics biomathematics and finance This book is a collection of survey articles covering many of the most recent developments like Schramm Loewner evolution fractal scaling limits exceptional sets for percolation and heat kernels on fractals The authors were the keynote speakers at the conference Fractal Geometry and Stochastics IV at Greifswald in September 2008

Birational Geometry, Kähler-Einstein Metrics and Degenerations Ivan Cheltsov, Xiuxiong Chen, Ludmil Katzarkov, Jihun Park, 2023-05-23 This book collects the proceedings of a series of conferences dedicated to birational geometry of Fano varieties held in Moscow Shanghai and Pohang The conferences were focused on the following two related problems existence of Kähler Einstein metrics on Fano varieties degenerations of Fano varieties on which two famous conjectures were recently proved The first is the famous Borisov Alexeev Borisov Conjecture on the boundedness of Fano varieties proved by Caucher Birkar for which he was awarded the Fields medal in 2018 and the second one is the arguably even more famous Tian Yau Donaldson Conjecture on the existence of Kähler Einstein metrics on smooth Fano varieties and K stability which was proved by Xiuxiong Chen Sir Simon Donaldson and Song Sun The solutions for these longstanding conjectures have opened new directions in birational and Kähler geometries These research directions generated new interesting mathematical problems attracting the attention of mathematicians worldwide These conferences brought together top researchers in both fields birational geometry and complex geometry to solve some of these problems and understand the relations between them The result of this activity is collected in this book which contains contributions by sixty nine mathematicians who contributed forty three research and survey papers to this volume Many of them were participants of the Moscow Shanghai Pohang conferences while the others helped to expand the research breadth of the volume the diversity of their contributions reflects the vitality of modern Algebraic Geometry

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

Permutation Patterns Steve Linton, Nik Ruškuc, Vincent Vatter, 2010-06-03 The study of permutation patterns is a thriving area of combinatorics that relates to many other areas of mathematics including graph theory enumerative combinatorics model

theory the theory of automata and languages and bioinformatics Arising from the Fifth International Conference on Permutation Patterns held in St Andrews in June 2007 this volume contains a mixture of survey and research articles by leading experts and includes the two invited speakers Martin Klazar and Mike Atkinson Together the collected articles cover all the significant strands of current research structural methods and simple patterns generalisations of patterns various enumerative aspects machines and networks packing and more Specialists in this area and other researchers in combinatorics and related fields will find much of interest in this book In addition the volume provides plenty of material accessible to advanced undergraduates and is a suitable reference for projects and dissertations *Lectures on Kähler*

Groups Pierre Py, 2025-03-25 A natural question that sits at the nexus of algebraic geometry differential geometry and geometric group theory is which groups can be realized as fundamental groups of compact Kähler manifolds called Kähler groups Roughly speaking the fundamental group of a manifold measures the number of holes Many restrictions are known and many examples are known but mathematicians are far from having a precise conjecture about which groups are Kähler The question serves as a fruitful connection between several major areas of geometry and complex analysis Py's book is an up to date pedagogical survey of the central theorems and methods for the study of Kähler groups including where illuminating detailed proofs It includes results of Gromov Schoen Napier Ramachandran Corlette Simpson Delzant Arapura and Nori The charm of the subject is that different methods yield information of different flavors and the challenge is to draw these threads together This book leans toward geometric group theory but it gives a coherent account of great value to anyone interested in Kähler groups and in Kähler manifolds more broadly The emphasis is on unity and cross fertilization among approaches **Noncommutative Analysis, Operator Theory and Applications** Daniel Alpay, Fabio

Cipriani, Fabrizio Colombo, Daniele Guido, Irene Sabadini, Jean-Luc Sauvageot, 2016-06-30 This book illustrates several aspects of the current research activity in operator theory operator algebras and applications in various areas of mathematics and mathematical physics It is addressed to specialists but also to graduate students in several fields including global analysis Schur analysis complex analysis C algebras noncommutative geometry operator algebras operator theory and their applications Contributors F Arici S Bernstein V Bolotnikov J Bourgain P Cerejeiras F Cipriani F Colombo F D Andrea G Dell Antonio M Elin U Franz D Guido T Isola A Kula L E Labuschagne G Landi W A Majewski I Sabadini J L Sauvageot D Shoikhet A Skalski H de Snoo D C Struppa N Vieira D V Voiculescu and H Woracek *Geometric Aspects of Functional Analysis* Vitali D. Milman, Gideon Schechtman, 2004-08-30 The Israeli GAFA seminar on Geometric Aspect of Functional Analysis during the years 2002 2003 follows the long tradition of the previous volumes It reflects the general trends of the theory Most of the papers deal with different aspects of the Asymptotic Geometric Analysis In addition the volume contains papers on related aspects of Probability classical Convexity and also Partial Differential Equations and Banach Algebras There are also two expository papers on topics which proved to be very much related to the main topic of the seminar One is Statistical Learning

Theory and the other is Models of Statistical Physics All the papers of this collection are original research papers

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 Topological Methods in Group Theory Ross Geoghegan, 2007-12-27 This book is about the interplay between algebraic topology and the theory of infinite discrete groups It is a hugely important contribution to the field of topological and geometric group theory and is bound to become a standard reference in the field To keep the length reasonable and the focus clear the author assumes the reader knows or can easily learn the necessary algebra but wants to see the topology done in detail The central subject of the book is the theory of ends Here the author adopts a new algebraic approach which is geometric in spirit **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 **Computational and Statistical Group Theory** Robert H. Gilman, Alexei G. Myasnikov, Vladimir Shpilrain, 2002 This book gives a nice overview of the diversity of current trends in computational and statistical group theory It presents the latest research and a number of specific topics such as growth black box groups measures on groups product replacement algorithms quantum automata and more It includes contributions by speakers at AMS Special Sessions at The University of Nevada Las Vegas and the Stevens Institute of Technology Hoboken NJ It is suitable for graduate students and research mathematicians interested in group theory **Structure and Geometry of Lie Groups** Joachim Hilgert, Karl-Hermann

Neeb,2011-11-06 This self contained text is an excellent introduction to Lie groups and their actions on manifolds The authors start with an elementary discussion of matrix groups followed by chapters devoted to the basic structure and representation theory of finite dimensional Lie algebras They then turn to global issues demonstrating the key issue of the interplay between differential geometry and Lie theory Special emphasis is placed on homogeneous spaces and invariant geometric structures The last section of the book is dedicated to the structure theory of Lie groups Particularly they focus on maximal compact subgroups dense subgroups complex structures and linearity This text is accessible to a broad range of mathematicians and graduate students it will be useful both as a graduate textbook and as a research reference

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