

Topics in Geometric Group Theory

Pierre de la Harpe

Topics In Geometric Group Theory Chicago Lectures In Mathematics

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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

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.

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.

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

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