

Modern Birkhäuser Classics

Discrete Groups, Expanding Graphs and Invariant Measures

Appendix by Jonathan D. Roggenkamp


Alexander Lubotzky



Joseph Fourier Institute
Foundational Research

Discrete Groups Expanding Graphs And Invariant Measures Modern Birkhuser Classics

Allan Lo, Richard Mycroft, Guillem Perarnau, Andrew Treglown



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Discrete Groups, Expanding Graphs and Invariant Measures Alex Lubotzky, 2010-02-17 In the last fifteen years two seemingly unrelated problems one in computer science and the other in measure theory were solved by amazingly similar techniques from representation theory and from analytic number theory One problem is the explicit construction of expanding graphs expanders These are highly connected sparse graphs whose existence can be easily demonstrated but whose explicit construction turns out to be a difficult task Since expanders serve as basic building blocks for various distributed networks an explicit construction is highly desirable The other problem is one posed by Ruziewicz about seventy years ago and studied by Banach It asks whether the Lebesgue measure is the only finitely additive measure of total measure one defined on the Lebesgue subsets of the n dimensional sphere and invariant under all rotations The two problems seem at first glance totally unrelated It is therefore so what surprising that both problems were solved using similar methods initially Kazhdan's property T from representation theory of semi simple Lie groups was applied in both cases to achieve partial results and later on both problems were solved using the proved Ramanujan conjecture from the theory of automorphic forms The fact that representation theory and automorphic forms have anything to do with these problems is a surprise and a hint as well that the two questions are strongly related

Analysis and Geometry on Graphs and Manifolds Matthias Keller, Daniel Lenz, Radoslaw K. Wojciechowski, 2020-08-20 The interplay of geometry spectral theory and stochastics has a long and fruitful history and is the driving force behind many developments in modern mathematics Bringing together contributions from a 2017 conference at the University of Potsdam this volume focuses on global effects of local properties Exploring the similarities and differences between the discrete and the continuous settings is of great interest to both researchers and graduate students in geometric analysis The range of survey articles presented in this volume give an expository overview of various topics including curvature the effects of geometry on the spectrum geometric group theory and spectral theory of Laplacian and Schrödinger operators Also included are shorter articles focusing on specific techniques and problems allowing the reader to get to the heart of several key topics

Discrete groups, expanding graphs and invariant measures

Alexander Lubotzky, 1994 *Surveys in Combinatorics 2019* Allan Lo, Richard Mycroft, Guillem Perarnau, Andrew

Treglown, 2019-06-27 Eight articles provide a valuable survey of the present state of knowledge in combinatorics

Infinite Groups: Geometric, Combinatorial and Dynamical Aspects Laurent Bartholdi, Tullio Ceccherini-Silberstein, Tatiana Smirnova-Nagnibeda, Andrzej Zuk, 2006-03-28 This book offers a panorama of recent advances in the theory of infinite groups It contains survey papers contributed by leading specialists in group theory and other areas of mathematics Topics include amenable groups Kaehler groups automorphism groups of rooted trees rigidity C algebras random walks on groups pro p groups Burnside groups profree groups and Fuchsian groups The accent is put on strong connections between group theory and other areas of mathematics

Research Directions in Number Theory Jennifer S. Balakrishnan, Amanda

Folsom, Matilde Lalín, Michelle Manes, 2019-08-01 These proceedings collect several number theory articles most of which were written in connection to the workshop WIN4 Women in Numbers held in August 2017 at the Banff International Research Station BIRS in Banff Alberta Canada It collects papers disseminating research outcomes from collaborations initiated during the workshop as well as other original research contributions involving participants of the WIN workshops The workshop and this volume are part of the WIN network aimed at highlighting the research of women and gender minorities in number theory as well as increasing their participation and boosting their potential collaborations in number theory and related fields

In the Tradition of Thurston II Ken'ichi Ohshika, Athanase Papadopoulos, 2022-08-02 The purpose of this volume and of the other volumes in the same series is to provide a collection of surveys that allows the reader to learn the important aspects of William Thurston's heritage Thurston's ideas have altered the course of twentieth century mathematics and they continue to have a significant influence on succeeding generations of mathematicians The topics covered in the present volume include complex hyperbolic Kleinian groups Mbius structures hyperbolic ends cone 3 manifolds Thurston's norm surgeries in representation varieties triangulations spaces of polygonal decompositions and of singular flat structures on surfaces combination theorems in the theories of Kleinian groups hyperbolic groups and holomorphic dynamics the dynamics and iteration of rational maps automatic groups and the combinatorics of right angled Artin groups

Advances in Noncommutative Geometry Ali Chamseddine, Caterina Consani, Nigel Higson, Masoud Khalkhali, Henri Moscovici, Guoliang Yu, 2020-01-13 This authoritative volume in honor of Alain Connes the foremost architect of Noncommutative Geometry presents the state of the art in the subject The book features an amalgam of invited survey and research papers that will no doubt be accessed read and referred to for several decades to come The pertinence and potency of new concepts and methods are concretely illustrated in each contribution Much of the content is a direct outgrowth of the Noncommutative Geometry conference held March 23 April 7 2017 in Shanghai China The conference covered the latest research and future areas of potential exploration surrounding topology and physics number theory as well as index theory and its ramifications in geometry

Bulletin (new Series) of the American Mathematical Society, 2006 **Subject Guide to Books in Print**, 1996 **Forthcoming Books** Rose Arny, 1995-02 **Mathematical Reviews**, 2001

Discrete Groups in Geometry and Analysis Birkhauser Verlag AG, Birkhauser Verlag GmbH, 1987 *Discrete Groups* Ken'ichi Ōshika, Ken'ichi Ōshika, 2002 Ohshika provides a concise introduction to the study of infinite groups as geometric objects The main topics addressed are the theory of hyperbolic groups in the sense of Gromov Epstein's automatic group theory and Kleinian group theory Coverage extends to the interactions between these theories and their relations to low dimensional topology Ohshika developed the text while teaching graduate courses at three Japanese universities The text has been translated from the Japanese by the author c Book News Inc

Discrete Groups in Geometry and Analysis R. Howe, 2014-09-01 *Discrete Groups in Geometry and Analysis* Howe, 2013-11-22 *Generators and Relations for Discrete*

Groups Harold S.M. Coxeter, W.O.J. Moser, 2013-11-11 When we began to consider the scope of this book we envisaged a catalogue supplying at least one abstract definition for any finitely generated group that the reader might propose But we soon realized that more or less arbitrary restrictions are necessary because interesting groups are so numerous For permutation groups of degree 8 or less i.e subgroups of S_8 the reader cannot do better than consult the 8 tables of JOSEPHINE BURNS 1915 while keeping an eye open for misprints Our own tables on pages 134-142 deal with groups of low order finite and infinite groups of congruent transformations symmetric and alternating groups linear fractional groups and groups generated by reflections in real Euclidean space of any number of dimensions The best substitute for a more extensive catalogue is the description in Chapter 2 of a method whereby the reader can easily work out his own abstract definition for almost any given finite group This method is sufficiently mechanical for the use of an electronic computer Discrete Groups Wilhelm Magnus, 1952 Generators and Relations for Discrete Groups Harold Scott Macdonald Coxeter, William O. J. Moser, 2013-11-11 When we began to consider the scope of this book we envisaged a catalogue supplying at least one abstract definition for any finitely generated group that the reader might propose But we soon realized that more or less arbitrary restrictions are necessary because interesting groups are so numerous For permutation groups of degree 8 or less i.e subgroups of S_8 the reader cannot do better than consult the 8 tables of JOSEPHINE BURNS 1915 while keeping an eye open for misprints Our own tables on pages 134-143 deal with groups of low order finite and infinite groups of congruent transformations symmetric and alternating groups linear fractional groups and groups generated by reflections in real Euclidean space of any number of dimensions The best substitute for a more extensive catalogue is the description in Chapter 2 of a method whereby the reader can easily work out his own abstract definition for almost any given finite group This method is sufficiently mechanical for the use of an electronic computer There is also a topological method Chapter 3 suitable not only for groups of low order but also for some infinite groups This involves choosing a set of generators constructing a certain graph the Cayley diagram or DEHNsche Gruppenbild and embedding the graph into a surface Cases in which the surface is a sphere or a plane are described in Chapter 4 where we obtain algebraically and verify topologically an abstract definition for each of the 17 space groups of two dimensional crystallography **Generators and Relations for Discrete Groups** H. S. M. Coxeter, William O. J. Moser, 2014-01-15

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