

Polycyclic Groups

A group is called **polycyclic** if there exists a polycyclic series through the group; i.e. a subnormal series of finite length

with cyclic factors $1 = G_0 \trianglelefteq G_1 \trianglelefteq \dots \trianglelefteq G_n = G$
 G_{i+1}/G_i is cyclic

Polycyclic Presentation

$$P = \langle a_1, \dots, a_n \mid a_j^{a_i} = w_{ij}, a_j^{a_i^{-1}} = v_{ij}, a_k^{r_k} = u_{kk} \rangle$$

$$1 \leq i < j \leq n, k \in I \subset \{1, \dots, n\}, r_i \in \mathbb{N}, i \in I$$

w_{ij}, v_{ij}, u_{jj} words in generators a_{j+1}, \dots, a_n

By induction:

$$\forall w \in P; w = a_1^{e_1} \dots a_n^{e_n} \text{ (normal form)}$$

$$e_i \in \mathbb{Z} \ \& \ 0 \leq e_i \leq r_i \text{ if } i \in I$$

Polycyclic Groups

Dörte Feichtenschlager



Polycyclic Groups:

Polycyclic Groups Daniel Segal, 2005-11-17 The theory of polycyclic groups is a branch of infinite group theory which has a rather different flavour from the rest of that subject This book is a comprehensive account of the present state of this theory As well as providing a connected and self contained account of the group theoretical background it explains in detail how deep methods of number theory and algebraic group theory have been used to achieve some very recent and rather spectacular advances in the subject Up to now most of this material has only been available in scattered research journals and some of it is new This book is the only unified account of these developments and will be of interest to mathematicians doing research in algebra and to postgraduate students studying that subject Group and Ring Theoretic Properties of Polycyclic Groups B.A.F. Wehrfritz, 2009-11-28 Polycyclic groups are built from cyclic groups in a specific way They arise in many contexts within group theory itself but also more generally in algebra for example in the theory of Noetherian rings The first half of this book develops the standard group theoretic techniques for studying polycyclic groups and the basic properties of these groups The second half then focuses specifically on the ring theoretic properties of polycyclic groups and their applications often to purely group theoretic situations The book is intended to be a study manual for graduate students and researchers coming into contact with polycyclic groups where the main lines of the subject can be learned from scratch Thus it has been kept short and readable with a view that it can be read and worked through from cover to cover At the end of each topic covered there is a description without proofs but with full references of further developments in the area An extensive bibliography then concludes the book The Theory of Infinite Soluble Groups John C. Lennox, Derek J. S. Robinson, 2004-08-19 The central concept in this monograph is that of a soluble group a group which is built up from abelian groups by repeatedly forming group extensions It covers all the major areas including finitely generated soluble groups soluble groups of finite rank modules over group rings algorithmic problems applications of cohomology and finitely presented groups whilst remaining fairly strictly within the boundaries of soluble group theory An up to date survey of the area aimed at research students and academic algebraists and group theorists it is a compendium of information that will be especially useful as a reference work for researchers in the field **Three Lectures on Polycyclic Groups**, 1970

Group and Ring Theoretic Properties of Polycyclic Groups B. A. F. Wehrfritz, 2010-04-17 **Symbolic Computation with Infinite Sequences of P-groups with Fixed Coclass** Dörte Feichtenschlager, 2010 The classification of finite p groups is a much investigated problem though in general it seems impossible Leedham Green Newman defined a new invariant for finite p groups the coclass They suggested to try to classify finite p groups by coclass One step towards such a classification was the introduction of so called infinite coclass sequences by du Sautoy and Eick Leedham Green The groups in such a sequence can be described by a parametrised presentation For prime 2 and a fixed coclass r it holds that almost all 2 groups of coclass r fall into finitely many infinite coclass sequences So describing the

infinite sequences yields an almost classification in these cases In this work it is shown that using the parametrised presentations one can compute certain invariants for almost all groups in an infinite coclass sequence especially the Schur multiplier This is done by introducing a way to work with almost all groups at a time by a symbolic computation

Handbook of Computational Group Theory Derek F. Holt, Bettina Eick, Eamonn A. O'Brien, 2005-01-13 The origins of computation group theory CGT date back to the late 19th and early 20th centuries Since then the field has flourished particularly during the past 30 to 40 years and today it remains a lively and active branch of mathematics The Handbook of Computational Group Theory offers the first complete treatment of all the fundame Three Lectures on Polycyclic Groups

J. E. Roseblade, Alfred W. Goldie, Bertram A. F. Wehrfritz, 1973 **Crystallographic Groups and Their Generalizations** Paul Igodt, 2000 This volume contains articles written by the invited speakers and workshop participants from the conference on Crystallographic Groups and Their Generalizations held at Katholieke Universiteit Leuven Kortrijk Belgium Presented are recent developments and open problems Topics include the theory of affine structures and polynomial structures affine Schottky groups and crooked tilings theory and problems on the geometry of finitely generated solvable groups flat Lorentz 3 manifolds and Fuchsian groups filiform Lie algebras hyperbolic automorphisms and Anosov diffeomorphisms on infra nilmanifolds localization theory of virtually nilpotent groups and aspherical spaces projective varieties and results on affine apartment systems Participants delivered high level research mathematics and a discussion was held forum for new researchers The survey results and original papers contained in this volume offer a comprehensive view of current developments in the field Applications of Group Theory in Cryptography Delaram Kahrobaei, Ramon Flores, Marialaura

Noce, Maggie E. Habeeb, Christopher Battarbee, 2024-03-25 This book is intended as a comprehensive treatment of group based cryptography accessible to both mathematicians and computer scientists with emphasis on the most recent developments in the area To make it accessible to a broad range of readers the authors started with a treatment of elementary topics in group theory combinatorics and complexity theory as well as providing an overview of classical public key cryptography Then some algorithmic problems arising in group theory are presented and cryptosystems based on these problems and their respective cryptanalyses are described The book also provides an introduction to ideas in quantum cryptanalysis especially with respect to the goal of post quantum group based cryptography as a candidate for quantum resistant cryptography The final part of the book provides a description of various classes of groups and their suitability as platforms for group based cryptography The book is a monograph addressed to graduate students and researchers in both mathematics and computer science *The Santa Cruz Conference on Finite Groups* Bruce Cooperstein, Geoffrey Mason, 1980 *Groups - Korea 1988* Ann C. Kim, Bernhard H. Neumann, 2006-11-14 These proceedings include selected and refereed original papers most are research papers a few are comprehensive survey articles

Arithmetic Groups and Their Generalizations Lizhen Ji, 2008 In one guise or another many mathematicians are familiar with certain arithmetic

groups such as \mathbb{Z} or $\mathrm{SL}_n(\mathbb{Z})$. Yet many applications of arithmetic groups and many connections to other subjects within mathematics are less well known. Indeed arithmetic groups admit many natural and important generalizations. The purpose of this expository book is to explain through some brief and informal comments and extensive references what arithmetic groups and their generalizations are, why they are important to study and how they can be understood and applied to many fields such as analysis, geometry, topology, number theory, representation theory and algebraic geometry. It is hoped that such an overview will shed a light on the important role played by arithmetic groups in modern mathematics.

Titles in this series are co-published with International Press, Cambridge, MA.

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Review from Mathematical Reviews

the author deserves credit for having done the tremendous job of encompassing every aspect of arithmetic groups visible in today's mathematics in a systematic manner; the book should be an important guide for some time to come.

AMSIP 43

Groups and Computation III

William M. Kantor, Ákos Seress, 2014-01-02

This volume contains contributions by the participants of the conference Groups and Computation which took place at The Ohio State University in Columbus, Ohio in June 1999. This conference was the successor of two workshops on Groups and Computation held at DIMACS in 1991 and 1995. There are papers on permutation group algorithms, finitely presented groups, polycyclic groups and parallel computation, providing a representative sample of the breadth of Computational Group Theory. On the other hand, more than one third of the papers deal with computations in matrix groups, giving an in-depth treatment of the currently most active area of the field. The points of view of the papers range from explicit computations to group theoretic algorithms to group theoretic theorems needed for algorithm development.

On Group-Theoretic Decision Problems and Their Classification

Charles F. Miller III, 2016-03-02

Part exposition and part presentation of new results, this monograph deals with that area of mathematics which has both combinatorial group theory and mathematical logic in common. Its main topics are the word problem for groups, the conjugacy problem for groups and the isomorphism problem for groups. The presentation depends on previous results of J. L. Britton, which with other factual background are treated in detail.

Groups St Andrews 1989: Volume 1

C. M.

Campbell, E. F. Robertson, 1991-03-21 Selected papers presented at the international conference on group theory held at St Andrews in 1989 are combined in two volumes The themes of the conference were combinatorial and computational group theory *Ischia Group Theory 2010* Mariagrazia Bianchi, 2012 Positive laws on generators in powerful pro p groups C Acciarri and G A Fernandez Alcober Periodic groups saturated by dihedral subgroups B Amberg and L Kazarin A note on finite groups in which the conjugacy class sizes form an arithmetic progression M Bianchi A Gillio and P P Palfy A survey of recent progress on non abelian tensor squares of groups R D Blyth F Fumagalli and M Morigi Conjugacy classes of subgroups of finite p groups the first gap R Brandl The Tutte polynomial of the Schreier graphs of the Grigorchuk group and the Basilica group T Ceccherini Silberstein A Donno and D Iacono On maximal subgroups of the alternating and symmetric groups V Colombo Markov's problems through the looking glass of Zariski and Markov topologies D Dikranjan and D Toller Linear groups with finite dimensional orbits M R Dixon L A Kurdachenko and J Otal Three dimensional loops as sections in a four dimensional solvable Lie group A Figula A note on finite p groups with a maximal elementary subgroup of rank 2 G Glauberman Finitely generated free by C symbol pro p groups W Herfort and P A Zalesskii Finite nonabelian 2 groups all of whose minimal nonabelian subgroups are isomorphic to M symbol Z Janko Twisted conjugacy in certain Artin groups A Juhasz Applications of Clifford's theorem to Frobenius groups of automorphisms E I Khukhro Inducing symbol partial characters with a given vertex M L Lewis Groups and Lie rings with Frobenius groups of automorphisms N Yu Makarenko On integral representations of finite groups D Malinin On p groups of small powerful class A Mann Lifting $2k$ generators of linear groups A Maroti and C Tamburini Bellani Fixed point subgroups and character tables G Navarro Permutability and seriality in locally finite groups D J S Robinson On the exponent of a finite group with a four group of automorphisms E Romano and P Shumyatsky Examples of Markov chains on spaces with multiplicities F Scarabotti and F Tolli On the order and the element orders of finite groups results and problems W J Shi On local finiteness of verbal subgroups in residually finite groups P Shumyatsky The adjoint group of radical rings and related questions Ya P Sysak On the Gorenstein dimension of soluble groups O Talelli Decomposition numbers for projective modules of finite Chevalley groups A E Zalesskii A Course in the Theory of Groups Derek J.S. Robinson, 2012-12-06 A group is defined by means of the laws of combinations of its symbols according to a celebrated dictum of Cayley And this is probably still as good a one line explanation as any The concept of a group is surely one of the central ideas of mathematics Certainly there are a few branches of that science in which groups are not employed implicitly or explicitly Nor is the use of groups confined to pure mathematics Quantum theory molecular and atomic structure and crystallography are just a few of the areas of science in which the idea of a group as a measure of symmetry has played an important part The theory of groups is the oldest branch of modern algebra Its origins are to be found in the work of Joseph Louis Lagrange 1736 1813 Paolo Ruffini 1765 1822 and Evariste Galois 1811 1832 on the theory of algebraic equations Their groups consisted of permutations of the variables or of the roots of polynomials and

indeed for much of the nineteenth century all groups were finite permutation groups Nevertheless many of the fundamental ideas of group theory were introduced by these early workers and their successors Augustin Louis Cauchy 1789 1857 Ludwig Sylow 1832 1918 Camille Jordan 1838 1922 among others The concept of an abstract group is clearly recognizable in the work of Arthur Cayley 1821 1895 but it did not really win widespread acceptance until Walther von Dyck 1856 1934

introduced presentations of groups **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

Ischia Group Theory 2010 - Proceedings Of The Conference Mariagrazia Bianchi,Patrizia Longobardi,Mercede Maj,Carlo Maria Scoppola,2011-09-01 The papers in this volume represent the proceedings of the Conference entitled Ischia Group Theory 2010 which took place at NH Ischia Thermal SPA Resort Ischia Naples Italy from April 14 to April 17 2010 The articles in this volume are contributions by speakers and participants of the Conference The volume contains a collection of research articles by leading experts in group theory and some accessible surveys of recent research in the area Together they provide an overview of the diversity of themes and applications that interest group theorists today Topics covered in this volume include finite p groups character and representation theory combinatorial group theory varieties of groups profinite and pro p groups linear groups graphs connected with groups subgroup structure finiteness conditions radical rings conjugacy classes automorphisms

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