Group Structure

- Group: a set of computation components with an associated Scheduling Decision Function (SDF)
  - Elements within a group can be threads, other groups, or other computation components
  - Elements can belong to more than one group
- Scheduling decision tree (SDT) composed of one or more groups
  - Control semantics for computation components
- SDT for computations are composed to form the System Scheduling Decision Tree (SSDT)

Groups And Computation

Charles C. Sims

Groups And Computation:

Groups and Computation II Larry Finkelstein, William M. Kantor, Consists of papers presented at the workshop on Groups and Computation held at DIMACS **Groups and Computation** Larry Finkelstein,William M. Kantor,1993-01-01 This volume contains papers presented at the Workshop on Groups and Computation held in October 1991 The workshop explored interactions among four areas symbolic algebra and computer algebra theoretical computer science group theory and applications of group computation The relationships between implementation and complexity form a recurrent theme though the papers also discuss such topics as parallel algorithms for groups computation in associative algebras asymptotic behavior of permutation groups the study of finite groups using infinite reflection groups combinatorial searching computing with representations and Cayley graphs as models for interconnection networks *Groups and Computation II.* Larry Finkelstein,1997 The workshop Groups and Computations took place at the Center for Discrete Mathematics and Theoretical Computer Science DIMACS at Rutgers University in June 1995 This and an earlier workshop see Groups and Computation Finkelstein and Kantor 1993 American Mathematical Society held in October 1991 was aimed at merging theory and practice within the broad area of computation with groups The primary goal of the previous workshop was to foster a dialogue between researchers studying the computational complexity of group algorithms and those engaged in the development of practical softwa *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 **Group Theory and Computation** N.S. Narasimha Sastry,Manoj Kumar Yadav,2018-09-21 This book is a blend of recent developments in theoretical and computational aspects of group theory It presents the state of the art research topics in different aspects of group theory namely character theory representation theory integral group rings the Monster simple group computational algorithms and methods on finite groups finite loops periodic groups Camina groups and generalizations automorphisms and non abelian tensor product of groups Presenting a collection of invited articles by some of the leading and highly active researchers in the theory of finite groups and their representations and the Monster group with a focus on computational aspects this book is of particular interest to researchers in the area of group theory and related fields of mathematics **Computational Group Theory and the Theory of Groups** Luise-Charlotte Kappe,Arturo Magidin,Robert Fitzgerald Morse,2008 The power of general purpose

computational algebra systems running on personal computers has increased rapidly in recent years For mathematicians doing research in group theory this means a growing set of sophisticated computational tools are now available for their use in developing new theoretical results This volume consists of contributions by researchers invited to the AMS Special Session on Computational Group Theory held in March 2007 The main focus of the session was on the application of Computational Group Theory CGT to a wide range of theoretical aspects of group theory The articles in this volume provide a variety of examples of how these computer systems helped to solve interesting theoretical problems within the discipline such as constructions of finite simple groups classification of p groups via coclass representation theory and constructions involving free nilpotent groups The volume also includes an article by R F Morse highlighting applications of CGT in group theory and two survey articles Graduate students and researchers interested in various aspects of group theory will find many examples of Computational Group Theory helping research and will recognize it as yet another tool at their disposal BOOK JACKET

Groups and Computation Larry Finkelstein,1993-01-01 This volume contains papers presented at the Workshop on Groups and Computation held in October 1991 The workshop explored interactions among four areas symbolic algebra and computer algebra theoretical computer science group theory and applications of group computation The relationships between implementation and complexity form a recurrent theme though the papers also discuss such topics as parallel algorithms for groups computation in associative algebras asymptotic behavior of permutation groups the study of finite groups using infinite reflection groups combinatorial searching computing with representations and Cayley graphs as models for interconnection networks *Computation with Finitely Presented Groups* Charles C. Sims,1994-01-28 Research in computational group theory an active subfield of computational algebra has emphasised three areas finite permutation groups finite solvable groups and finitely presented groups This book deals with the third of these areas The author emphasises the connections with fundamental algorithms from theoretical computer science particularly the theory of automata and formal languages computational number theory and computational commutative algebra The LLL lattice reduction algorithm and various algorithms for Hermite and Smith normal forms from computational number theory are used to study the abelian quotients of a finitely presented group The work of Baumslag Cannonito and Miller on computing nonabelian polycyclic quotients is described as a generalisation of Buchberger s Gr bner basis methods to right ideals in the integral group ring of a polycyclic group Researchers in computational group theory mathematicians interested in finitely presented groups and theoretical computer scientists will find this book useful **Groups and Computation** ,1999 Consists of papers presented at the workshop on Groups and Computation held at DIMACS **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 Groups St Andrews 2009 in Bath: Volume 2 C. M. Campbell,M. R. Quick,E. F. Robertson,C. M. Roney-Dougal,G. C. Smith,G. Traustason,2011-06-16 Groups St Andrews 2009 was held in the University of Bath in August 2009 and this second volume of a two volume book contains selected papers from the international conference Five main lecture courses were given at the conference and articles based on their lectures form a substantial part of the proceedings This volume contains the contributions by Eammon O Brien Auckland Mark Sapir Vanderbilt and Dan Segal Oxford Apart from the main speakers refereed survey and research articles were contributed by other conference participants Arranged in alphabetical order these articles cover a wide spectrum of modern group theory The regular proceedings of Groups St Andrews conferences have provided snapshots of the state of research in group theory throughout the past 30 years Earlier volumes have had a major impact on the development of group theory and it is anticipated that this volume will be equally important **Topics in Algebraic Graph Theory** Lowell W. Beineke,Robin J. Wilson,Peter J. Cameron,2004-10-04 The rapidly expanding area of algebraic graph theory uses two different branches of algebra to explore various aspects of graph theory linear algebra for spectral theory and group theory for studying graph symmetry These areas have links with other areas of mathematics such as logic and harmonic analysis and are increasingly being used in such areas as computer networks where symmetry is an important feature Other books cover portions of this material but this book is unusual in covering both of these aspects and there are no other books with such a wide scope Peter J Cameron internationally recognized for his substantial contributions to the area served as academic consultant for this volume and the result is ten expository chapters written by acknowledged international experts in the field Their well written contributions have been carefully edited to enhance readability and to standardize the chapter structure terminology and notation throughout the book To help the reader there is an extensive introductory chapter that covers the basic background material in graph theory linear algebra and group theory Each chapter concludes with an extensive list of references Permutation Group Algorithms Ákos Seress,2003-03-17 Table of contents Computational Group Theory and the Theory of Groups, II Luise-Charlotte Kappe,Arturo Magidin,Robert Fitzgerald Morse,2010-04-08 This volume consists of contributions by researchers who were invited to the Harlaxton Conference on Computational Group Theory and Cohomology held in August of 2008 and to the AMS Special Session on Computational Group Theory held in October 2008 This volume showcases examples of how Computational Group Theory can be applied to a wide range of theoretical aspects of group theory Among the problems studied in this book are classification of p groups covers of Lie groups resolutions of Bieberbach groups and the study of the lower central series of free groups This volume also includes expository articles on the probabilistic zeta function of a group and on enumerating subgroups of symmetric groups Researchers and graduate students working in all areas of Group Theory will find many examples of how Computational Group Theory helps at various stages of the research process from developing conjectures through the verification stage These examples will suggest to the

mathematician ways to incorporate Computational Group Theory into their own research endeavors **Probabilistic Group Theory, Combinatorics, and Computing** Alla Detinko,Dane Flannery,Eamonn O'Brien,2013-01-13 Probabilistic Group Theory Combinatorics and Computing is based on lecture courses held at the Fifth de Br n Workshop in Galway Ireland in April 2011 Each course discusses computational and algorithmic aspects that have recently emerged at the interface of group theory and combinatorics with a strong focus on probabilistic methods and results The courses served as a forum for devising new strategic approaches and for discussing the main open problems to be solved in the further development of each area The book represents a valuable resource for advanced lecture courses Researchers at all levels are introduced to the main methods and the state of the art leading up to the very latest developments One primary aim of the book s approach and design is to enable postgraduate students to make immediate use of the material presented Some Tapas of Computer Algebra Arjeh M. Cohen,Hans Cuypers,Hans Sterk,1998-12-15 This book presents the basic concepts and algorithms of computer algebra using practical examples that illustrate their actual use in symbolic computation A wide range of topics are presented including Groebner bases real algebraic geometry lie algebras factorization of polynomials integer programming permutation groups differential equations coding theory automatic theorem proving and polyhedral geometry This book is a must read for anyone working in the area of computer algebra symbolic computation and computer science **Groups and Computation III** William M. Kantor,Ákos Seress,2001-01-01 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 **Fundamentals of Computation Theory** Artur Jeż,Jan Otop,2025-09-21 This book constitutes the proceedings of the 25th International Symposium on Fundamentals of Computation Theory FCT 2025 held in Wroc aw Poland during September 15 17 2025 The 32 full papers included in this volume were carefully reviewed and selected from 50 submissions They present the fundamentals of computation theory including topics such as algorithms complexity and formal methods *LuCaNT: LMFDB, Computation, and Number Theory* John Cremona,John Jones,Jennifer Paulhus,Andrew V. Sutherlan,John Voight,2024-03-22 This book will be published Open Access with a Creative Commons Attribution 4 0 International License CC BY 4 0 The eBook can be downloaded electronically for free This volume contains the proceedings of the LuCaNT LMFDB Computation and Number Theory conference held from July 10 14 2023 at the Institute for Computational and Experimental Research in Mathematics ICERM

Providence Rhode Island and affiliated with Brown University This conference provided an opportunity for researchers scholars and practitioners to exchange ideas share advances and collaborate in the fields of computation mathematical databases number theory and arithmetic geometry The papers that appear in this volume record recent advances in these areas with special focus on the LMFDB the L Functions and Modular Forms Database an online resource for mathematical objects arising in the Langlands program and the connections between them *An Evaluation of Three Techniques for Improving Ability to Solve Arithmetic Problems* Olin Silas Lutes,1926

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