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Reflection Groups and Coxeter Groups

JAMES E. HUMPHREYS

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Nicholas Kuhn



Reflection Groups And Coxeter Groups James E Humphreys:

Reflection Groups and Coxeter Groups James E. Humphreys, 1992-10 This graduate textbook presents a concrete and up to date introduction to the theory of Coxeter groups The book is self contained making it suitable either for courses and seminars or for self study The first part is devoted to establishing concrete examples Finite reflection groups acting on Euclidean spaces are discussed and the first part ends with the construction of the affine Weyl groups a class of Coxeter groups that plays a major role in Lie theory The second part which is logically independent of but motivated by the first develops from scratch the properties of Coxeter groups in general including the Bruhat ordering and the seminal work of Kazhdan and Lusztig on representations of Hecke algebras associated with Coxeter groups is introduced Finally a number of interesting complementary topics as well as connections with Lie theory are sketched The book concludes with an extensive bibliography on Coxeter groups and their applications

Coxeter Groups and Hopf Algebras Marcelo Aguiar, 2006 An important idea in the work of G C Rota is that certain combinatorial objects give rise to Hopf algebras that reflect the manner in which these objects compose and decompose Recent work has seen the emergence of several interesting Hopf algebras of this kind which connect diverse subjects such as combinatorics algebra geometry and theoretical physics This monograph presents a novel geometric approach using Coxeter complexes and the projection maps of Tits for constructing and studying many of these objects as well as new ones The first three chapters introduce the necessary background ideas making this work accessible to advanced graduate students The later chapters culminate in a unified and conceptual construction of several Hopf algebras based on combinatorial objects which emerge naturally from the geometric viewpoint This work lays a foundation and provides new insights for further development of the subject

Open Problems in Algebraic Combinatorics Christine Berkesch, Benjamin Brubaker, Gregg Musiker, Pavlo Pylyavskyy, Victor Reiner, 2024-08-21 In their preface the editors describe algebraic combinatorics as the area of combinatorics concerned with exact as opposed to approximate results and which puts emphasis on interaction with other areas of mathematics such as algebra topology geometry and physics It is a vibrant area which saw several major developments in recent years The goal of the 2022 conference Open Problems in Algebraic Combinatorics 2022 was to provide a forum for exchanging promising new directions and ideas The current volume includes contributions coming from the talks at the conference as well as a few other contributions written specifically for this volume The articles cover the majority of topics in algebraic combinatorics with the aim of presenting recent important research results and also important open problems and conjectures encountered in this research The editors hope that this book will facilitate the exchange of ideas in algebraic combinatorics

Homotopy Methods in Algebraic Topology Nicholas Kuhn, 2001-04-25 This volume presents the proceedings from the AMS IMS SIAM Summer Research Conference on Homotopy Methods in Algebraic Topology held at the University of Colorado Boulder The conference coincided with the sixtieth birthday of J Peter May An article is included reflecting his wide ranging and influential contributions to the subject

area Other articles in the book discuss the ordinary elliptic and real oriented Adams spectral sequences mapping class groups configuration spaces extended powers operads the telescope conjecture p compact groups algebraic K theory stable and unstable splittings the calculus of functors the E_∞ tensor product and equivariant cohomology theories The book offers a compendious source on modern aspects of homotopy theoretic methods in many algebraic settings

Representations of Reductive Groups Monica Nevins, Peter E. Trapa, 2015-12-18 Over the last forty years David Vogan has left an indelible imprint on the representation theory of reductive groups His groundbreaking ideas have led to deep advances in the theory of real and p adic groups and have forged lasting connections with other subjects including number theory automorphic forms algebraic geometry and combinatorics *Representations of Reductive Groups* is an outgrowth of the conference of the same name dedicated to David Vogan on his 60th birthday which took place at MIT on May 19-23 2014 This volume highlights the depth and breadth of Vogan's influence over the subjects mentioned above and point to many exciting new directions that remain to be explored Notably the first article by McGovern and Trapa offers an overview of Vogan's body of work placing his ideas in a historical context Contributors Pramod N Achar Jeffrey D Adams Dan Barbasch Manjul Bhargava Cécile Bonnafant Dan Ciubotaru Meinolf Geck William Graham Benedict H Gross Xuhua He Jing Song Huang Toshiyuki Kobayashi Bertram Kostant Wenjing Li George Lusztig Eric Marberg William M McGovern Wilfried Schmid Kari Vilonen Diana Shelstad Peter E Trapa David A Vogan Jr Nolan R Wallach Xiaoheng Wang Geordie Williamson

In the Tradition of Ahlfors-Bers, VI Ursula Hamenstädt, 2013-05-13 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

Groups, Languages and Automata Derek F. Holt, Sarah Rees, Claas E. Röver, 2017-02-23 A reference book discussing applications of formal language theory to group theory particularly geometric and computational group theory

Multiplicative Invariant Theory Martin Lorenz, 2005-03-10 Multiplicative invariant theory as a research area in its own right within the wider spectrum of invariant theory is of relatively recent vintage The present text offers a coherent account of the basic results achieved thus far Multiplicative invariant theory is intimately tied to integral representations of finite groups Therefore the field has a predominantly discrete algebraic flavor Geometry specifically the theory of algebraic groups enters through Weyl groups and their root lattices as well as via character lattices of algebraic tori Throughout the text numerous explicit examples of multiplicative invariant algebras and fields are presented including the complete list of all multiplicative invariant algebras for lattices of rank 2 The book is intended for graduate and postgraduate students as well as researchers in integral representation theory commutative algebra and mostly invariant theory

Representations of Algebras, Geometry and Physics Kiyoshi Igusa, Alex Martsinkovsky, Gordana Todorov, 2021-05-17 This volume contains selected expository lectures delivered at the 2018 Maurice Auslander Distinguished Lectures and International Conference held April 25-30 2018 at the

Woods Hole Oceanographic Institute Woods Hole MA Reflecting recent developments in modern representation theory of algebras the selected topics include an introduction to a new class of quiver algebras on surfaces called geodesic ghor algebras a detailed presentation of Feynman categories from a representation theoretic viewpoint connections between representations of quivers and the structure theory of Coxeter groups powerful new applications of approximable triangulated categories new results on the heart of a t t structure and an introduction to methods of constructive category theory

Groups, Matrices, and Vector Spaces James B. Carrell, 2017-09-02 This unique text provides a geometric approach to group theory and linear algebra bringing to light the interesting ways in which these subjects interact Requiring few prerequisites beyond understanding the notion of a proof the text aims to give students a strong foundation in both geometry and algebra Starting with preliminaries relations elementary combinatorics and induction the book then proceeds to the core topics the elements of the theory of groups and fields Lagrange s Theorem cosets the complex numbers and the prime fields matrix theory and matrix groups determinants vector spaces linear mappings eigentheory and diagonalization Jordan decomposition and normal form normal matrices and quadratic forms The final two chapters consist of a more intensive look at group theory emphasizing orbit stabilizer methods and an introduction to linear algebraic groups which enriches the notion of a matrix group Applications involving symmetry groups determinants linear coding theory and cryptography are interwoven throughout Each section ends with ample practice problems assisting the reader to better understand the material Some of the applications are illustrated in the chapter appendices The author s unique melding of topics evolved from a two semester course that he taught at the University of British Columbia consisting of an undergraduate honors course on abstract linear algebra and a similar course on the theory of groups The combined content from both makes this rare text ideal for a year long course covering more material than most linear algebra texts It is also optimal for independent study and as a supplementary text for various professional applications Advanced undergraduate or graduate students in mathematics physics computer science and engineering will find this book both useful and enjoyable

Topics in Hyperplane Arrangements, Polytopes and Box-Splines Corrado De Concini, Claudio Procesi, 2010-08-18 Topics in Hyperplane Arrangements Polytopes and Box Splines brings together many areas of research that focus on methods to compute the number of integral points in suitable families or variable polytopes The topics introduced expand upon differential and difference equations approximation theory cohomology and module theory This book written by two distinguished authors engages a broad audience by proving the a strong foudation This book may be used in the classroom setting as well as a reference for researchers

Recent Developments in Representation Theory Alex Martsinkovsky, Gordana Todorov, Kiyoshi Igusa, 2016-08-26 This volume contains selected expository lectures delivered at the Maurice Auslander Distinguished Lectures and International Conference held May 1 6 2014 at the Woods Hole Oceanographic Institute Woods Hole MA Several significant developments of the last decade in representation theory of

finite dimensional algebras are related to combinatorics Three of the five lectures in this volume deal respectively with the Catalan combinatorics the combinatorics of Gelfand Zetlin polytopes and the combinatorics of tilting modules The remaining papers present history and recent advances in the study of left orders in left Artinian rings and a survey on invariant theory of Artin Schelter regular algebras

An Invitation to Computational Homotopy Graham Ellis, 2019-08-14 An Invitation to Computational Homotopy is an introduction to elementary algebraic topology for those with an interest in computers and computer programming It expertly illustrates how the basics of the subject can be implemented on a computer through its focus on fully worked examples designed to develop problem solving techniques The transition from basic theory to practical computation raises a range of non trivial algorithmic issues which will appeal to readers already familiar with basic theory and who are interested in developing computational aspects The book covers a subset of standard introductory material on fundamental groups covering spaces homology cohomology and classifying spaces as well as some less standard material on crossed modules These topics are covered in a way that hints at potential applications of topology in areas of computer science and engineering outside the usual territory of pure mathematics and also in a way that demonstrates how computers can be used to perform explicit calculations within the domain of pure algebraic topology itself The initial chapters include in depth examples from data mining biology and digital image analysis while the later chapters cover a range of computational examples on the cohomology of classifying spaces that are likely beyond the reach of a purely paper and pen approach to the subject An Invitation to Computational Homotopy serves as a self contained and informal introduction to these topics and their implementation in the sphere of computer science Written in a dynamic and engaging style it skilfully showcases a range of useful machine computations and will serve as an invaluable aid to graduate students working with algebraic topology

Categorification and Higher Representation Theory Anna Beliakova, Aaron D. Lauda, 2017-02-21 The emergent mathematical philosophy of categorification is reshaping our view of modern mathematics by uncovering a hidden layer of structure in mathematics revealing richer and more robust structures capable of describing more complex phenomena Categorified representation theory or higher representation theory aims to understand a new level of structure present in representation theory Rather than studying actions of algebras on vector spaces where algebra elements act by linear endomorphisms of the vector space higher representation theory describes the structure present when algebras act on categories with algebra elements acting by functors The new level of structure in higher representation theory arises by studying the natural transformations between functors This enhanced perspective brings into play a powerful new set of tools that deepens our understanding of traditional representation theory This volume exhibits some of the current trends in higher representation theory and the diverse techniques that are being employed in this field with the aim of showcasing the many applications of higher representation theory The companion volume Contemporary Mathematics Volume 684 is devoted to categorification in geometry topology and physics

Perverse Sheaves and Applications to Representation Theory

Pramod N. Achar, 2021-09-27 Since its inception around 1980 the theory of perverse sheaves has been a vital tool of fundamental importance in geometric representation theory This book which aims to make this theory accessible to students and researchers is divided into two parts The first six chapters give a comprehensive account of constructible and perverse sheaves on complex algebraic varieties including such topics as Artin's vanishing theorem smooth descent and the nearby cycles functor This part of the book also has a chapter on the equivariant derived category and brief surveys of side topics including étale and adic sheaves D-modules and algebraic stacks The last four chapters of the book show how to put this machinery to work in the context of selected topics in geometric representation theory Kazhdan-Lusztig theory Springer theory the geometric Satake equivalence and canonical bases for quantum groups Recent developments such as the p-canonical basis are also discussed The book has more than 250 exercises many of which focus on explicit calculations with concrete examples It also features a 4-page Quick Reference that summarizes the most commonly used facts for computations similar to a table of integrals in a calculus textbook

Symmetries in Graphs, Maps, and Polytopes Jozef Širáň, Robert Jajcay, 2016-03-26 This volume contains seventeen of the best papers delivered at the SIGMAP Workshop 2014 representing the most recent advances in the field of symmetries of discrete objects and structures with a particular emphasis on connections between maps, Riemann surfaces and dessins d'enfant Providing the global community of researchers in the field with the opportunity to gather, converse and present their newest findings and advances the Symmetries In Graphs Maps and Polytopes Workshop 2014 was the fifth in a series of workshops The initial workshop organized by Steve Wilson in Flagstaff Arizona in 1998 was followed in 2002 and 2006 by two meetings held in Aveiro Portugal organized by Antonio Breda d'Azevedo and a fourth workshop held in Oaxaca Mexico organized by Isabel Hubard in 2010 This book should appeal to both specialists and those seeking a broad overview of what is happening in the area of symmetries of discrete objects and structures iv

Representations of Algebras Graham J. Leuschke, Frauke Bleher, Ralf Schiffler, Dan I. Zacharia, 2018 Contains the proceedings of the 17th Workshop and International Conference on Representations of Algebras ICRA 2016 held in August 2016 at Syracuse University This volume includes three survey articles based on short courses in the areas of commutative algebraic groups modular group representation theory and thick tensor ideals of bounded derived categories

Imaginary Schur-Weyl Duality Alexander Kleshchev, Robert Muth, 2017-01-18 The authors study imaginary representations of the Khovanov-Lauda-Rouquier algebras of affine Lie type Irreducible modules for such algebras arise as simple heads of standard modules In order to define standard modules one needs to have a cuspidal system for a fixed convex preorder A cuspidal system consists of irreducible cuspidal modules one for each real positive root for the corresponding affine root system X as well as irreducible imaginary modules one for each multiplication The authors study imaginary modules by means of imaginary Schur-Weyl duality and introduce an imaginary analogue of tensor space and the imaginary Schur algebra They construct a projective generator for the imaginary Schur algebra which

yields a Morita equivalence between the imaginary and the classical Schur algebra and construct imaginary analogues of Gelfand Graev representations Ringel duality and the Jacobi Trudy formula

\$p\$-adic Groups Robert S. Doran, Paul J. Sally, Jr., and Loren Spice, 2011

Harmonic Analysis on Reductive,

Abstract Algebra Stephen Lovett, 2022-07-05

When a student of mathematics studies abstract algebra he or she inevitably faces questions in the vein of What is abstract algebra or What makes it abstract Algebra in its broadest sense describes a way of thinking about classes of sets equipped with binary operations In high school algebra a student explores properties of operations and on real numbers Abstract algebra studies properties of operations without specifying what types of number or object we work with Any theorem established in the abstract context holds not only for real numbers but for every possible algebraic structure that has operations with the stated properties This textbook intends to serve as a first course in abstract algebra The selection of topics serves both of the common trends in such a course a balanced introduction to groups rings and fields or a course that primarily emphasizes group theory The writing style is student centered conscientiously motivating definitions and offering many illustrative examples Various sections or sometimes just examples or exercises introduce applications to geometry number theory cryptography and many other areas This book offers a unique feature in the lists of projects at the end of each section the author does not view projects as just something extra or cute but rather an opportunity for a student to work on and demonstrate their potential for open ended investigation The projects ideas come in two flavors investigative or expository The investigative projects briefly present a topic and posed open ended questions that invite the student to explore the topic asking and to trying to answer their own questions Expository projects invite the student to explore a topic with algebraic content or pertain to a particular mathematician s work through responsible research The exercises challenge the student to prove new results using the theorems presented in the text The student then becomes an active participant in the development of the field

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