Algebraic And Geometric Combinatorics

Gunnar Fløystad,Trygve Johnsen,Andreas Leopold Knutsen

Algebraic And Geometric Combinatorics:

   Algebraic and Geometric Combinatorics Christos A. Athanasiadis,2006 This volume contains original research and survey articles stemming from the Euroconference Algebraic and Geometric Combinatorics The papers discuss a wide range of problems that illustrate interactions of combinatorics with other branches of mathematics such as commutative algebra algebraic geometry convex and discrete geometry enumerative geometry and topology of complexes and partially ordered sets Among the topics covered are combinatorics of polytopes lattice polytopes triangulations and subdivisions Cohen Macaulay cell complexes monomial ideals geometry of toric surfaces groupoids in combinatorics Kazhdan Lusztig combinatorics and graph colorings This book is aimed at researchers and graduate students interested in various aspects of modern combinatorial theories   *Algebraic And Geometric Combinatorics On Lattice Polytopes - Proceedings Of The Summer Workshop On Lattice Polytopes* Takayuki Hibi,Akiyoshi Tsuchiya,2019-05-30 This volume consists of research papers and expository survey articles presented by the invited speakers of the Summer Workshop on Lattice Polytopes Topics include enumerative algebraic and geometric combinatorics on lattice polytopes topological combinatorics commutative algebra and toric varieties Readers will find that this volume showcases current trends on lattice polytopes and stimulates further developments of many research areas surrounding this field With the survey articles research papers and open problems this volume provides its fundamental materials for graduate students to learn and researchers to find exciting activities and avenues for further exploration on lattice polytopes   **Algebraic and Geometric Combinatorics** E. Mendelsohn,1982-01-01 Algebraic and Geometric Combinatorics   **Lectures in Geometric Combinatorics** Rekha R. Thomas,2006 This book presents a course in the geometry of convex polytopes in arbitrary dimension suitable for an advanced undergraduate or beginning graduate student The book starts with the basics of polytope theory Schlegel and Gale diagrams are introduced as geometric tools to visualize polytopes in high dimension and to unearth bizarre phenomena in polytopes The heart of the book is a treatment of the secondary polytope of a point configuration and its connections to the state polytope of the toric ideal defined by the configuration These polytopes are relatively recent constructs with numerous connections to discrete geometry classical algebraic geometry symplectic geometry and combinatorics The connections rely on Grobner bases of toric ideals and other methods from commutative algebra The book is self contained and does not require any background beyond basic linear algebra With numerous figures and exercises it can be used as a textbook for courses on geometric combinatorial and computational aspects of the theory of polytopes   *Geometric Combinatorics* Ezra Miller,2007 Geometric combinatorics describes a wide area of mathematics that is primarily the study of geometric objects and their combinatorial structure This text is a compilation of expository articles at the interface between combinatorics and geometry   *Connections Between Algebra, Combinatorics, and Geometry* Susan M. Cooper,Sean Sather-Wagstaff,2014-05-16 Commutative algebra combinatorics and algebraic geometry are thriving areas of mathematical

research with a rich history of interaction Connections Between Algebra and Geometry contains lecture notes along with exercises and solutions from the Workshop on Connections Between Algebra and Geometry held at the University of Regina from May 29 June 1 2012 It also contains research and survey papers from academics invited to participate in the companion Special Session on Interactions Between Algebraic Geometry and Commutative Algebra which was part of the CMS Summer Meeting at the University of Regina held June 2 3 2012 and the meeting Further Connections Between Algebra and Geometry which was held at the North Dakota State University February 23 2013 This volume highlights three mini courses in the areas of commutative algebra and algebraic geometry differential graded commutative algebra secant varieties and fat points and symbolic powers It will serve as a useful resource for graduate students and researchers who wish to expand their knowledge of commutative algebra algebraic geometry combinatorics and the intricacies of their intersection *Algebraic Combinatorics And Quantum Groups* Naihuan Jing,2003-06-27 Algebraic combinatorics has evolved into one of the most active areas of mathematics during the last several decades Its recent developments have become more interactive with not only its traditional field representation theory but also algebraic geometry harmonic analysis and mathematical physics This book presents articles from some of the key contributors in the area It covers Hecke algebras Hall algebras the Macdonald polynomial and its deviations and their relations with other fields **Algebraic and Geometric Combinatorics** ,1995 **Combinatorial Methods in Topology and Algebraic Geometry** John R. Harper,Richard Mandelbaum,1985 This collection marks the recent resurgence of interest in combinatorial methods resulting from their deep and diverse applications both in topology and algebraic geometry Nearly thirty mathematicians met at the University of Rochester in 1982 to survey several of the areas where combinatorial methods are proving especially fruitful topology and combinatorial group theory knot theory 3 manifolds homotopy theory and infinite dimensional topology and four manifolds and algebraic surfaces This material is accessible to advanced graduate students with a general course in algebraic topology along with some work in combinatorial group theory and geometric topology as well as to established mathematicians with interests in these areas For both student and professional mathematicians the book provides practical suggestions for research directions still to be explored as well as the aesthetic pleasures of seeing the interplay between algebra and topology which is characteristic of this field In several areas the book contains the first general exposition published on the subject In topology for example the editors have included M Cohen W Metzler and K Sauerman s article on Collapses of K times I and group presentations and Metzler s On the Andrews Curtis Conjecture and related problems In addition J M Montesino has provided summary articles on both 3 and 4 manifolds **Algebraic and Geometric Combinatorics on Lattice Polytopes** Hibi Takayuki,2019 **New Perspectives in Algebraic Combinatorics** Louis J. Billera,1999-09-28 This text contains expository contributions by respected researchers on the connections between algebraic geometry topology commutative algebra representation theory and convex geometry *Combinatorial Aspects of Commutative Algebra and Algebraic*

Geometry Gunnar Fløystad,Trygve Johnsen,Andreas Leopold Knutsen,2011-05-16 The Abel Symposium 2009 Combinatorial aspects of Commutative Algebra and Algebraic Geometry held at Voss Norway featured talks by leading researchers in the field This is the proceedings of the Symposium presenting contributions on syzygies tropical geometry Boij S derberg theory Schubert calculus and quiver varieties The volume also includes an introductory survey on binomial ideals with applications to hypergeometric series combinatorial games and chemical reactions The contributions pose interesting problems and offer up to date research on some of the most active fields of commutative algebra and algebraic geometry with a combinatorial flavour   **Combinatorial Algebraic Geometry** Aldo Conca,Sandra Di Rocco,Jan Draisma,June Huh,Bernd Sturmfels,Filippo Viviani,2014-05-15 Combinatorics and Algebraic Geometry have enjoyed a fruitful interplay since the nineteenth century Classical interactions include invariant theory theta functions and enumerative geometry The aim of this volume is to introduce recent developments in combinatorial algebraic geometry and to approach algebraic geometry with a view towards applications such as tensor calculus and algebraic statistics A common theme is the study of algebraic varieties endowed with a rich combinatorial structure Relevant techniques include polyhedral geometry free resolutions multilinear algebra projective duality and compactifications   Combinatorial Convexity and Algebraic Geometry Günter Ewald,2012-12-06 The aim of this book is to provide an introduction for students and nonspecialists to a fascinating relation between combinatorial geometry and algebraic geometry as it has developed during the last two decades This relation is known as the theory of toric varieties or sometimes as torus embeddings Chapters I IV provide a self contained introduction to the theory of convex poly topes and polyhedral sets and can be used independently of any applications to algebraic geometry Chapter V forms a link between the first and second part of the book Though its material belongs to combinatorial convexity its definitions and theorems are motivated by toric varieties Often they simply translate algebraic geometric facts into combinatorial language Chapters VI VIII introduce toric va rieties in an elementary way but one which may not for specialists be the most elegant In considering toric varieties many of the general notions of algebraic geometry occur and they can be dealt with in a concrete way Therefore Part 2 of the book may also serve as an introduction to algebraic geometry and preparation for farther reaching texts about this field The prerequisites for both parts of the book are standard facts in linear algebra including some facts on rings and fields and calculus Assuming those all proofs in Chapters I VII are complete with one exception IV Theorem 5 1 In Chapter VIII we use a few additional prerequisites with references from appropriate texts   **Combinatorial and Geometric Representation Theory** Seok-Jin Kang,Kyu-Hwan Lee,2003 This volume presents the proceedings of the international conference on Combinatorial and Geometric Representation Theory In the field of representation theory a wide variety of mathematical ideas are providing new insights giving powerful methods for understanding the theory and presenting various applications to other branches of mathematics Over the past two decades there have been remarkable developments This book explains the strong connections between combinatorics

geometry and representation theory It is suitable for graduate students and researchers interested in representation theory

Ideals of Powers and Powers of Ideals Enrico Carlini,Huy Tài Hà,Brian Harbourne,Adam Van Tuyl,2020-05-21 This book discusses regular powers and symbolic powers of ideals from three perspectives algebra combinatorics and geometry and examines the interactions between them It invites readers to explore the evolution of the set of associated primes of higher and higher powers of an ideal and explains the evolution of ideals associated with combinatorial objects like graphs or hypergraphs in terms of the original combinatorial objects It also addresses similar questions concerning our understanding of the Castelnuovo Mumford regularity of powers of combinatorially defined ideals in terms of the associated combinatorial data From a more geometric point of view the book considers how the relations between symbolic and regular powers can be interpreted in geometrical terms Other topics covered include aspects of Waring type problems symbolic powers of an ideal and their invariants e g the Waldschmidt constant the resurgence and the persistence of associated primes **Algebra VII** A. N. Parshin,1993-09-23 From the reviews The book under review consists of two monographs on geometric aspects of group theory Together these two articles form a wide ranging survey of combinatorial group theory with emphasis very much on the geometric roots of the subject This will be a useful reference work for the expert as well as providing an overview of the subject for the outsider or novice Many different topics are described and explored with the main results presented but not proved This allows the interested reader to get the flavour of these topics without becoming bogged down in detail Both articles give comprehensive bibliographies so that it is possible to use this book as the starting point for a more detailed study of a particular topic of interest Bulletin of the London Mathematical Society 1996 *Combinatorial and Geometric Group Theory* Oleg Bogopolski,Inna Bumagin,Olga Kharlampovich,Enric Ventura,2011-01-28 This volume assembles several research papers in all areas of geometric and combinatorial group theory originated in the recent conferences in Dortmund and Ottawa in 2007 It contains high quality refereed articles developing new aspects of these modern and active fields in mathematics It is also appropriate to advanced students interested in recent results at a research level **Geometric And Combinatorial Aspects Of Commutative Algebra** Jurgen Herzog,Gaetana Restuccia,2001-03-06 This work is based on the lectures presented at the International Conference of Commutative Algebra and Algebraic Geometry held in Messina Italy It discusses developments and advances in commutative algebra algebraic geometry and combinatorics highlighting the theory of projective schemes the geometry of curves determinantal and stable ideals and free resolutions **Algebraic and Geometric Combinatorics** ,1995

The Enigmatic Realm of **Algebraic And Geometric Combinatorics**: Unleashing the Language is Inner Magic

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