

Toric Varieties

David A. Cox
John B. Little
Henry K. Schenck

Graduate Studies
in Mathematics

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Toric Varieties Graduate Studies In Mathematics

Alekos Vidras, Alain Yger



Toric Varieties Graduate Studies In Mathematics:

Toric Varieties David A. Cox, John B. Little, Henry K. Schenck, 2011 Toric varieties form a beautiful and accessible part of modern algebraic geometry This book covers the standard topics in toric geometry a novel feature is that each of the first nine chapters contains an introductory section on the necessary background material in algebraic geometry Other topics covered include quotient constructions vanishing theorems equivariant cohomology GIT quotients the secondary fan and the minimal model program for toric varieties The subject lends itself to rich examples reflected in the 134 illustrations included in the text The book also explores connections with commutative algebra and polyhedral geometry treating both polytopes and their unbounded cousins polyhedra There are appendices on the history of toric varieties and the computational tools available to investigate nontrivial examples in toric geometry Readers of this book should be familiar with the material covered in basic graduate courses in algebra and topology and to a somewhat lesser degree complex analysis In addition the authors assume that the reader has had some previous experience with algebraic geometry at an advanced undergraduate level The book will be a useful reference for graduate students and researchers who are interested in algebraic geometry polyhedral geometry and toric varieties

The Resolution of Singular Algebraic Varieties David Ellwood, Herwig Hauser, Shigefumi Mori, Josef Schicho, 2014-12-12 Resolution of Singularities has long been considered as being a difficult to access area of mathematics The more systematic and simpler proofs that have appeared in the last few years in zero characteristic now give us a much better understanding of singularities They reveal the aesthetics of both the logical structure of the proof and the various methods used in it The present volume is intended for readers who are not yet experts but always wondered about the intricacies of resolution As such it provides a gentle and quite comprehensive introduction to this amazing field The book may tempt the reader to enter more deeply into a topic where many mysteries especially the positive characteristic case await to be disclosed Titles in this series are co published with the Clay Mathematics Institute Cambridge MA

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

Tropical Geometry and Integrable Systems Chris Athorne, Diane Maclagan, Ian Strachan, 2012 This volume contains the proceedings of the conference on tropical geometry and integrable systems held July 3-8 2011 at the University of Glasgow United Kingdom One of the aims of this conference was to bring

together researchers in the field of tropical geometry and its applications from apparently disparate ends of the spectrum to foster a mutual understanding and establish a common language which will encourage further developments of the area This aim is reflected in these articles which cover areas from automata through cluster algebras to enumerative geometry In addition two survey articles are included which introduce ideas from researchers on one end of this spectrum to researchers on the other This book is intended for graduate students and researchers interested in tropical geometry and integrable systems and the developing links between these two areas Toric Topology Victor M. Buchstaber, Taras E.

Pano, 2015-07-15 This book is about toric topology a new area of mathematics that emerged at the end of the 1990s on the border of equivariant topology algebraic and symplectic geometry combinatorics and commutative algebra It has quickly grown into a very active area with many links to other areas of mathematics and continues to attract experts from different fields The key players in toric topology are moment angle manifolds a class of manifolds with torus actions defined in combinatorial terms Construction of moment angle manifolds relates to combinatorial geometry and algebraic geometry of toric varieties via the notion of a quasitoric manifold Discovery of remarkable geometric structures on moment angle manifolds led to important connections with classical and modern areas of symplectic Lagrangian and non Kaehler complex geometry A related categorical construction of moment angle complexes and polyhedral products provides for a universal framework for many fundamental constructions of homotopical topology The study of polyhedral products is now evolving into a separate subject of homotopy theory A new perspective on torus actions has also contributed to the development of classical areas of algebraic topology such as complex cobordism This book includes many open problems and is addressed to experts interested in new ideas linking all the subjects involved as well as to graduate students and young researchers ready to enter this beautiful new area **Birational Geometry and Moduli Spaces** Elisabetta Colombo, Barbara Fantechi, Paola

Frediani, Donatella Iacono, Rita Pardini, 2020-02-25 This volume collects contributions from speakers at the INdAM Workshop Birational Geometry and Moduli Spaces which was held in Rome on 11-15 June 2018 The workshop was devoted to the interplay between birational geometry and moduli spaces and the contributions of the volume reflect the same idea focusing on both these areas and their interaction In particular the book includes both surveys and original papers on irreducible holomorphic symplectic manifolds Severi varieties degenerations of Calabi Yau varieties uniruled threefolds toric Fano threefolds mirror symmetry canonical bundle formula the Lefschetz principle birational transformations and deformations of diagrams of algebras The intention is to disseminate the knowledge of advanced results and key techniques used to solve open problems The book is intended for all advanced graduate students and researchers interested in the new research frontiers of birational geometry and moduli spaces **Research Directions in Symplectic and Contact Geometry and**

Topology Bahar Acu, Catherine Cannizzo, Dusa McDuff, Ziva Myer, Yu Pan, Lisa Traynor, 2022-02-02 This book highlights a number of recent research advances in the field of symplectic and contact geometry and topology and related areas in low

dimensional topology This field has experienced significant and exciting growth in the past few decades and this volume provides an accessible introduction into many active research problems in this area The papers were written with a broad audience in mind so as to reach a wide range of mathematicians at various levels Aside from teaching readers about developing research areas this book will inspire researchers to ask further questions to continue to advance the field The volume contains both original results and survey articles presenting the results of collaborative research on a wide range of topics These projects began at the Research Collaboration Conference for Women in Symplectic and Contact Geometry and Topology WiSCon in July 2019 at ICERM Brown University Each group of authors included female and nonbinary mathematicians at different career levels in mathematics and with varying areas of expertise This paved the way for new connections between mathematicians at all career levels spanning multiple continents and resulted in the new collaborations and directions that are featured in this work

Facets of Algebraic Geometry: Volume 1 Paolo Aluffi, David Anderson, Milena Hering, Mircea Mustață, Sam Payne, 2022-04-07 Written to honor the 80th birthday of William Fulton the articles collected in this volume the first of a pair present substantial contributions to algebraic geometry and related fields with an emphasis on combinatorial algebraic geometry and intersection theory Featured topics include commutative algebra moduli spaces quantum cohomology representation theory Schubert calculus and toric and tropical geometry The range of these contributions is a testament to the breadth and depth of Fulton's mathematical influence The authors are all internationally recognized experts and include well established researchers as well as rising stars of a new generation of mathematicians The text aims to stimulate progress and provide inspiration to graduate students and researchers in the field

Introduction to Singularities and Deformations Gert-Martin Greuel, Christoph Lossen, Eugenii Shustin, 2025 In the second edition we do not only correct errors update references and improve some of the proofs of the text of the first edition but also add a new chapter on singularities in arbitrary characteristic We give an overview of several aspects of singularities of algebraic varieties and formal power series defined over a field of arbitrary characteristic algebraically closed or not Almost all of the results presented here appeared after the publication of the first edition and some results are new In particular we treat in arbitrary characteristic the classical invariants of hypersurface singularities and we review results on the equisingularity of plane curve singularities on the classification of parametrizations of plane branches and on hypersurface and complete intersection singularities with small moduli Moreover we discuss and prove determinacy and semicontinuity results of families of ideals and matrices of power series parametrized by an arbitrary Noether base scheme which are used to prove open loci properties for several singularity invariants The semicontinuity has surprising applications in the computation of local standard bases of zero dimensional ideals which are by magnitudes faster than previously known methods The chapter contains two appendices One is by Dmitry Kerner on large submodules within group orbits which relates to determinacy criteria for singularities in very general contexts It is focused on methods applicable to a broad class

of fields of arbitrary characteristic while before the theory was mainly restricted to zero characteristic The second appendix is by Ilya Tyomkin and deals with the geometry of Severi varieties mainly on toric varieties It discusses the breakthrough solution to the problem on the irreducibility of Severi varieties of the plane in arbitrary characteristic with a focus on the characteristic free approach based on tropical geometry We try to be self contained and give proofs whenever possible However due to the amount of material this is not always possible and we then give precise references to the original sources

Special Metrics and Group Actions in Geometry Simon G. Chiossi, Anna Fino, Emilio Musso, Fabio Podestà, Luigi Vezzoni, 2017-11-27 The volume is a follow up to the INdAM meeting Special metrics and quaternionic geometry held in Rome in November 2015 It offers a panoramic view of a selection of cutting edge topics in differential geometry including 4 manifolds quaternionic and octonionic geometry twistor spaces harmonic maps spinors complex and conformal geometry homogeneous spaces and nilmanifolds special geometries in dimensions 5 8 gauge theory symplectic and toric manifolds exceptional holonomy and integrable systems The workshop was held in honor of Simon Salamon a leading international scholar at the forefront of academic research who has made significant contributions to all these subjects The articles published here represent a compelling testimony to Salamon's profound and longstanding impact on the mathematical community Target readership includes graduate students and researchers working in Riemannian and complex geometry Lie theory and mathematical physics

Interactions with Lattice Polytopes Alexander M. Kasprzyk, Benjamin Nill, 2022-06-08 This book collects together original research and survey articles highlighting the fertile interdisciplinary applications of convex lattice polytopes in modern mathematics Covering a diverse range of topics including algebraic geometry mirror symmetry symplectic geometry discrete geometry and algebraic combinatorics the common theme is the study of lattice polytopes These fascinating combinatorial objects are a cornerstone of toric geometry and continue to find rich and unforeseen applications throughout mathematics The workshop Interactions with Lattice Polytopes assembled many top researchers at the Otto von Guericke University Magdeburg in 2017 to discuss the role of lattice polytopes in their work and many of their presented results are collected in this book Intended to be accessible these articles are suitable for researchers and graduate students interested in learning about some of the wide ranging interactions of lattice polytopes in pure mathematics

Torsors, Étale Homotopy and Applications to Rational Points Alexei N. Skorobogatov, 2013-04-18 Torsors also known as principal bundles or principal homogeneous spaces are ubiquitous in mathematics The purpose of this book is to present expository lecture notes and cutting edge research papers on the theory and applications of torsors and étale homotopy all written from different perspectives by leading experts Part one of the book contains lecture notes on recent uses of torsors in geometric invariant theory and representation theory plus an introduction to the étale homotopy theory of Artin and Mazur Part two of the book features a milestone paper on the étale homotopy approach to the arithmetic of rational points Furthermore the reader will find a collection of research articles on algebraic groups and homogeneous spaces

rational and K3 surfaces geometric invariant theory rational points descent and the Brauer Manin obstruction Together these give a state of the art view of a broad area at the crossroads of number theory and algebraic geometry **Machine**

Learning In Pure Mathematics And Theoretical Physics Yang-hui He,2023-06-21 The juxtaposition of machine learning and pure mathematics and theoretical physics may first appear as contradictory in terms The rigours of proofs and derivations in the latter seem to reside in a different world from the randomness of data and statistics in the former Yet an often under appreciated component of mathematical discovery typically not presented in a final draft is experimentation both with ideas and with mathematical data Think of the teenage Gauss who conjectured the Prime Number Theorem by plotting the prime counting function many decades before complex analysis was formalized to offer a proof Can modern technology in part mimic Gauss's intuition The past five years saw an explosion of activity in using AI to assist the human mind in uncovering new mathematics finding patterns accelerating computations and raising conjectures via the machine learning of pure noiseless data The aim of this book a first of its kind is to collect research and survey articles from experts in this emerging dialogue between theoretical mathematics and machine learning It does not dwell on the well known multitude of mathematical techniques in deep learning but focuses on the reverse relationship how machine learning helps with mathematics Taking a panoramic approach the topics range from combinatorics to number theory and from geometry to quantum field theory and string theory Aimed at PhD students as well as seasoned researchers each self contained chapter offers a glimpse of an exciting future of this symbiosis Multidimensional Residue Theory and Applications Alekos

Vidras,Alain Yger,2023-10-18 Residue theory is an active area of complex analysis with connections and applications to fields as diverse as partial differential and integral equations computer algebra arithmetic or diophantine geometry and mathematical physics Multidimensional Residue Theory and Applications defines and studies multidimensional residues via analytic continuation for holomorphic bundle valued current maps This point of view offers versatility and flexibility to the tools and constructions proposed allowing these residues to be defined and studied outside the classical case of complete intersection The book goes on to show how these residues are algebraic in nature and how they relate and apply to a wide range of situations most notably to membership problems such as the Briançon-Skoda theorem and Hilbert's Nullstellensatz to arithmetic intersection theory and to tropical geometry This book will supersede the existing literature in this area which dates back more than three decades It will be appreciated by mathematicians and graduate students in multivariate complex analysis But thanks to the gentle treatment of the one dimensional case in Chapter 1 and the rich background material in the appendices it may also be read by specialists in arithmetic diophantine or tropical geometry as well as in mathematical physics or computer algebra Arithmetic and Algebraic Geometry Yuri Tschinkel,2025-01-02 This book is a tribute to the

memory of Yuri Ivanovich Manin who passed away on January 7 2023 Manin was one of the giants of modern mathematics His work covered a wide range of fields including logic number theory geometry mathematical physics theoretical computer

science and linguistics The contributions collected here are on topics close to his life long passion arithmetic and algebraic geometry **Superschool on Derived Categories and D-branes** Matthew Ballard, Charles Doran, David Favero, Eric Sharpe, 2018-08-21 This book consists of a series of introductory lectures on mirror symmetry and its surrounding topics These lectures were provided by participants in the PIMS Superschool for Derived Categories and D branes in July 2016 Together they form a comprehensive introduction to the field that integrates perspectives from mathematicians and physicists alike These proceedings provide a pleasant and broad introduction into modern research topics surrounding string theory and mirror symmetry that is approachable to readers new to the subjects These topics include constructions of various mirror pairs approaches to mirror symmetry connections to homological algebra and physical motivations Of particular interest is the connection between GLSMs D branes birational geometry and derived categories which is explained both from a physical and mathematical perspective The introductory lectures provided herein highlight many features of this emerging field and give concrete connections between the physics and the math Mathematical readers will come away with a broader perspective on this field and a bit of physical intuition while physicists will gain an introductory overview of the developing mathematical realization of physical predictions **Surveys in Combinatorics 2024** Felix Fischer, Robert Johnson, 2024-06-13 This volume contains surveys of current research directions in combinatorics written by leading researchers in their fields **Perspectives on Four Decades of Algebraic Geometry, Volume 1** Alberto Albano, Paolo Aluffi, Michele Bolognesi, Cinzia Casagrande, Elisabetta Colombo, Alberto Conte, Antonella Grassi, Claudio Pedrini, Gian Pietro Pirola, Alessandro Verra, 2025-01-22 The first of a two part volume this collection offers a unifying vision of algebraic geometry exploring its evolution over the last four decades as well as state of the art research With chapters written by established leaders in the field as well as younger researchers readers will gain a wide ranging perspective of the area The volume also commemorates the significant talent and contributions of Alberto Collino whose scientific accomplishments helped shape the themes and topics covered Perspectives on Four Decades of Algebraic Geometry Volume 1 will be a valuable resource for those interested in the ways algebraic geometry has expanded over the years and continues to grow Quadratic Counts of Twisted Cubics is available open access under a Creative Commons Attribution 4.0 International License via link.springer.com **Applications of Polynomial Systems** David A. Cox, 2020-03-02 Systems of polynomial equations can be used to model an astonishing variety of phenomena This book explores the geometry and algebra of such systems and includes numerous applications The book begins with elimination theory from Newton to the twenty first century and then discusses the interaction between algebraic geometry and numerical computations a subject now called numerical algebraic geometry The final three chapters discuss applications to geometric modeling rigidity theory and chemical reaction networks in detail Each chapter ends with a section written by a leading expert Examples in the book include oil wells HIV infection phylogenetic models four bar mechanisms border rank font design Stewart Gough platforms rigidity of edge graphs Gaussian

graphical models geometric constraint systems and enzymatic cascades The reader will encounter geometric objects such as Brier patches Cayley Menger varieties and toric varieties and algebraic objects such as resultants Rees algebras approximation complexes matroids and toric ideals Two important subthemes that appear in multiple chapters are toric varieties and algebraic statistics The book also discusses the history of elimination theory including its near elimination in the middle of the twentieth century The main goal is to inspire the reader to learn about the topics covered in the book With this in mind the book has an extensive bibliography containing over 350 books and papers

ZAG Handbook of Algebraic Geometry Ivan Cheltsov, Jesus Martinez-Garcia, 2025-10-28 The ZAG Handbook of Algebraic Geometry provides an extensive collection of extended summaries of all the research talks given at the worldwide ZAG Zoom Algebraic Geometry Seminar as well as contributed short notes Featuring contributions from all continents from some of the most respected voices in the field the book is aimed at researchers in algebraic geometry and related fields who want to gain a comprehensive understanding of state of the art research in algebraic geometry The book is broad and wide ranging offering material suitable to multiple levels of readership from advanced undergraduate students in mathematics to active specialized researchers Features A showcase of the most important worldwide trends in algebraic geometry in recent years Over two hundred short summaries of state of the art research in algebraic geometry accessible to other mathematicians A combination of contributions by renowned mathematicians key researchers and new talent Links to recordings of hour long presentations for each contribution Ivan Cheltsov is a Professor at the University of Edinburgh United Kingdom and his research interests include birational geometry and K stability of Fano varieties He is the author of 3 books and 126 articles written together with 52 co authors Ivan has organized research meetings in Auckland Beijing Cambridge Durham Edinburgh Fuerteventura Istanbul Levico Terme London Magadan Melbourne Moscow New York Oberwolfach Pipa Pohang Easter Island Shanghai Sochi Spitsbergen Stony Brook Sydney Tianjin Wakkanai and Vladivostok Since 1995 Ivan has been married to Elena Cheltsova they have three children Ivan Fedor Ekaterina and a cat Kuzya Aside from Mathematics Ivan enjoys traveling reading and cycling his Brompton bicycle Jesus Martinez Garcia is a Senior Lecturer in Pure Mathematics at the University of Essex United Kingdom He obtained his PhD at the University of Edinburgh in 2013 and has held research positions at the University of Bath United Kingdom Johns Hopkins University United States and the Max Planck Institute for Mathematics Germany His research is in algebraic geometry with special emphasis on birational geometry moduli spaces K stability Fano varieties and computational algebraic geometry Martinez Garcia has written one book several research articles and two software packages and he has co organized more than ten research meetings including the annual international conference AGGITatE as well as several research seminars

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Toric Varieties Graduate Studies In Mathematics Introduction

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