

ALGEBRAIC GEOMETRY

Alexei Skorobogatov

December 16, 2003

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Algebraic Geometry Imperial College London

**Serkan Ho?ten, Diane Maclagan, Frank
Sottile**



Algebraic Geometry Imperial College London:

Representation Theory and Algebraic Geometry Vladimir Baranovsky, Nicolas Guay, Travis Schedler, 2022-06-15 The chapters in this volume explore the influence of the Russian school on the development of algebraic geometry and representation theory particularly the pioneering work of two of its illustrious members Alexander Beilinson and Victor Ginzburg in celebration of their 60th birthdays Based on the work of speakers and invited participants at the conference Interactions Between Representation Theory and Algebraic Geometry held at the University of Chicago August 21-25 2017 this volume illustrates the impact of their research and how it has shaped the development of various branches of mathematics through the use of D-modules the affine Grassmannian symplectic algebraic geometry and other topics All authors have been deeply influenced by their ideas and present here cutting edge developments on modern topics Chapters are organized around three distinct themes Groups algebras categories and representation theory D-modules and perverse sheaves Analogous varieties defined by quivers Representation Theory and Algebraic Geometry will be an ideal resource for researchers who work in the area particularly those interested in exploring the impact of the Russian school

Number Theory and Algebraic Geometry Miles Reid, Alexei Skorobogatov, 2003 Sir Peter Swinnerton-Dyer's mathematical career encompasses more than 60 years work of amazing creativity This volume provides contemporary insight into several subjects in which Sir Peter's influence has been notable and is dedicated to his 75th birthday The opening section reviews some of his many remarkable contributions to mathematics and other fields The remaining contributions come from leading researchers in analytic and arithmetic number theory and algebraic geometry The topics treated include rational points on algebraic varieties the Hasse principle Shafarevich-Tate groups of elliptic curves and motives Zagier's conjectures descent and zero cycles Diophantine approximation and Abelian and Fano varieties

A Course in Real Algebraic Geometry Claus Scheiderer, 2024-09-12 This textbook is designed for a one-year graduate course in real algebraic geometry with a particular focus on positivity and sums of squares of polynomials The first half of the book features a thorough introduction to ordered fields and real closed fields including the Tarski-Seidenberg projection theorem and transfer principle Classical results such as Artin's solution to Hilbert's 17th problem and Hilbert's theorems on sums of squares of polynomials are presented in detail Other features include careful introductions to the real spectrum and to the geometry of semialgebraic sets The second part studies Archimedean positivstellensatz in great detail and in various settings together with important applications The techniques and results presented here are fundamental to contemporary approaches to polynomial optimization Important results on sums of squares on projective varieties are covered as well The last part highlights applications to semidefinite programming and polynomial optimization including recent research on semidefinite representation of convex sets Written by a leading expert and based on courses taught for several years the book assumes familiarity with the basics of commutative algebra and algebraic varieties as can be covered in a one-semester first course Over 350 exercises of all levels

of difficulty are included in the book **Foliation Theory in Algebraic Geometry** Paolo Cascini, James McKernan, Jorge Vitório Pereira, 2016-03-30 Featuring a blend of original research papers and comprehensive surveys from an international team of leading researchers in the thriving fields of foliation theory holomorphic foliations and birational geometry this book presents the proceedings of the conference Foliation Theory in Algebraic Geometry hosted by the Simons Foundation in New York City in September 2013 Topics covered include Fano and del Pezzo foliations the cone theorem and rank one foliations the structure of symmetric differentials on a smooth complex surface and a local structure theorem for closed symmetric differentials of rank two an overview of lifting symmetric differentials from varieties with canonical singularities and the applications to the classification of AT bundles on singular varieties an overview of the powerful theory of the variety of minimal rational tangents introduced by Hwang and Mok recent examples of varieties which are hyperbolic and yet the Green Griffiths locus is the whole of X and a classification of pseudoeffective codimension one distributions Foliations play a fundamental role in algebraic geometry for example in the proof of abundance for threefolds and to a solution of the Green Griffiths conjecture for surfaces of general type with positive Segre class The purpose of this volume is to foster communication and enable interactions between experts who work on holomorphic foliations and birational geometry and to bring together leading researchers to demonstrate the powerful connection of ideas methods and goals shared by these two areas of study div *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 *Perspectives on Four Decades of Algebraic Geometry, Volume 2* 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 second 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 2* will be a

valuable resource for those interested in the ways algebraic geometry has expanded over the years and continues to grow
Recent Advances in Algebraic Geometry Christopher D. Hacon, Mircea Mustață, Mihnea Popa, 2015-01-15 A

comprehensive collection of expository articles on cutting edge topics at the forefront of research in algebraic geometry
Algebraic Geometry: Salt Lake City 2015 Tommaso de Fernex, Brendan Hassett, Mircea Mustață, Martin Olsson, Mihnea Popa, Richard Thomas, 2018-06-01 This is Part 1 of a two volume set Since Oscar Zariski organized a meeting in 1954 there has been a major algebraic geometry meeting every decade Woods Hole 1964 Arcata 1974 Bowdoin 1985 Santa Cruz 1995 and Seattle 2005 The American Mathematical Society has supported these summer institutes for over 50 years Their proceedings volumes have been extremely influential summarizing the state of algebraic geometry at the time and pointing to future developments The most recent Summer Institute in Algebraic Geometry was held July 2015 at the University of Utah in Salt Lake City sponsored by the AMS with the collaboration of the Clay Mathematics Institute This volume includes surveys growing out of plenary lectures and seminar talks during the meeting Some present a broad overview of their topics while others develop a distinctive perspective on an emerging topic Topics span both complex algebraic geometry and arithmetic questions specifically analytic techniques enumerative geometry moduli theory derived categories birational geometry tropical geometry Diophantine questions geometric representation theory characteristic and adic tools etc The resulting articles will be important references in these areas for years to come

Semidefinite Optimization and Convex Algebraic Geometry Grigoriy Blekherman, Pablo A. Parrilo, Rekha R. Thomas, 2012-01-01 This book provides a self contained accessible introduction to the mathematical advances and challenges resulting from the use of semidefinite programming in polynomial optimization This quickly evolving research area with contributions from the diverse fields of convex geometry algebraic geometry and optimization is known as convex algebraic geometry Each chapter addresses a fundamental aspect of convex algebraic geometry The book begins with an introduction to nonnegative polynomials and sums of squares and their connections to semidefinite programming and quickly advances to several areas at the forefront of current research These include 1 semidefinite representability of convex sets 2 duality theory from the point of view of algebraic geometry and 3 nontraditional topics such as sums of squares of complex forms and noncommutative sums of squares polynomials Suitable for a class or seminar with exercises aimed at teaching the topics to beginners Semidefinite Optimization and Convex Algebraic Geometry serves as a point of entry into the subject for readers from multiple communities such as engineering mathematics and computer science A guide to the necessary background material is available in the appendix

Analytic and Algebraic Geometry Jeffery D. McNeal, Mircea Mustata, 2010-01-01 Analytic and algebraic geometers often study the same geometric structures but bring different methods to bear on them While this dual approach has been spectacularly successful at solving problems the language differences between algebra and analysis also represent a difficulty for students and researchers in geometry particularly complex geometry The PCMI program was designed to partially address this

language gap by presenting some of the active developments in algebraic and analytic geometry in a form suitable for students on the other side of the analysis algebra language divide One focal point of the summer school was multiplier ideals a subject of wide current interest in both subjects The present volume is based on a series of lectures at the PCMI summer school on analytic and algebraic geometry The series is designed to give a high level introduction to the advanced techniques behind some recent developments in algebraic and analytic geometry The lectures contain many illustrative examples detailed computations and new perspectives on the topics presented in order to enhance access of this material to non specialists Publisher's description Combinatorial, Computational, and Applied Algebraic Geometry Serkan Hoşten, Diane Maclagan, Frank Sottile, 2025-10-01 This volume consists of surveys on topics to which Bernd Sturmfels has contributed over his mathematical career invariant theory Gröbner bases toric ideals and varieties algebraic methods in discrete and convex optimization hypergeometric systems algebraic statistics likelihood geometry tropical geometry chemical reaction networks numerical methods in algebraic geometry sums of squares tropical geometry tensors and algebraic vision Each article gives a gentle introduction to the topic Many contributions summarize the state of the art in each subject The volume is perfect for anyone who wishes an entry point to any one of these diverse topics *Homotopy Theory and Arithmetic Geometry - Motivic and Diophantine Aspects* Frank Neumann, Ambrus Pál, 2021-09-29 This book provides an introduction to state of the art applications of homotopy theory to arithmetic geometry The contributions to this volume are based on original lectures by leading researchers at the LMS CMI Research School on Homotopy Theory and Arithmetic Geometry Motivic and Diophantine Aspects and the Nelder Fellow Lecturer Series which both took place at Imperial College London in the summer of 2018 The contribution by Brazelton based on the lectures by Wickelgren provides an introduction to arithmetic enumerative geometry the notes of Cisinski present motivic sheaves and new cohomological methods for intersection theory and Schlank's contribution gives an overview of the use of motivic homotopy theory for obstructions to the existence of rational points on algebraic varieties Finally the article by Asok and Stroh based in part on the Nelder Fellow lecture series by Stroh gives a survey of the interplay between motivic homotopy theory and affine algebraic geometry with a focus on contractible algebraic varieties Now a major trend in arithmetic geometry this volume offers a detailed guide to the fascinating circle of recent applications of homotopy theory to number theory It will be invaluable to research students entering the field as well as postdoctoral and more established researchers **Contributions to Algebraic Geometry** Piotr Pragacz, 2012 The articles in this volume are the outcome of the Impanga Conference on Algebraic Geometry in 2010 at the Banach Center in Bedlewo The following spectrum of topics is covered K3 surfaces and Enriques surfaces Prym varieties and their moduli invariants of singularities in birational geometry differential forms on singular spaces Minimal Model Program linear systems toric varieties Seshadri and packing constants equivariant cohomology Thom polynomials arithmetic questions The main purpose of the volume is to give comprehensive introductions to the above topics starting from an elementary level and

ending with a discussion of current research The first four topics are represented by the notes from the mini courses held during the conference In the articles the reader will find classical results and methods as well as modern ones This book is addressed to researchers and graduate students in algebraic geometry singularity theory and algebraic topology Most of the material in this volume has not yet appeared in book form

Recent Advances in Representation Theory, Quantum Groups, Algebraic Geometry, and Related Topics Pramod M. Achar, Dijana Jakelić, Kailash C. Misra, Milen Yakimov, 2014-08-27 This volume contains the proceedings of two AMS Special Sessions Geometric and Algebraic Aspects of Representation Theory and Quantum Groups and Noncommutative Algebraic Geometry held October 13 14 2012 at Tulane University New Orleans Louisiana Included in this volume are original research and some survey articles on various aspects of representations of algebras including Kac Moody algebras Lie superalgebras quantum groups toroidal algebras Leibniz algebras and their connections with other areas of mathematics and mathematical physics

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

Hodge Theory Eduardo Cattani, Fouad El Zein, Phillip A. Griffiths, Lê Dũng Tráng, 2014-07-21 This book provides a comprehensive and up to date introduction to Hodge theory one of the central and most vibrant areas of contemporary mathematics from leading specialists on the subject The topics range from the basic topology of algebraic varieties to the study of variations of mixed Hodge structure and the Hodge theory of maps Of particular interest is the study of algebraic cycles including the Hodge and Bloch Beilinson Conjectures Based on lectures delivered at the 2010 Summer School on Hodge Theory at the ICTP in Trieste Italy the book is intended for a broad group of students and researchers The exposition is as accessible as possible and doesn't require a deep background At the same time the book presents some

topics at the forefront of current research The book is divided between introductory and advanced lectures The introductory lectures address Kähler manifolds variations of Hodge structure mixed Hodge structures the Hodge theory of maps period domains and period mappings algebraic cycles up to and including the Bloch Beilinson conjecture and Chow groups sheaf cohomology and a new treatment of Grothendieck's algebraic de Rham theorem The advanced lectures address a Hodge theoretic perspective on Shimura varieties the spread philosophy in the study of algebraic cycles absolute Hodge classes including a new self contained proof of Deligne's theorem on absolute Hodge cycles and variation of mixed Hodge structures The contributors include Patrick Brosnan James Carlson Eduardo Cattani François Charles Mark Andrea de Cataldo Fouad El Zein Mark L Green Phillip A Griffiths Matt Kerr L D Ng Tr ng Luca Migliorini Jacob P Murre Christian Schnell and Loring W Tu

Algebraic Combinatorics and the Monster Group Alexander A. Ivanov, 2023-08-17 The current state of knowledge on the Monster group including Majorana theory Vertex Operator Algebras Moonshine and maximal subgroups *Turbulent Times in Mathematics* Elaine McKinnon Riehm, Frances Hoffman, 2011-11-03 Despite the renown of the Fields Medals J C Fields has been until now a rather obscure figure and recovering details about his professional activities and personal life was not at all a simple task This work is a triumph of persistence with far flung archival and documentary sources and provides a rich non mathematical portrait of the man in all aspects of his life and career Highly readable and replete with period detail the book sheds useful light on the mathematical and scientific world of Fields time and is sure to remain the definitive biographical study Tom Archibald Simon Fraser University Burnaby BC Canada Drawing on a wide array of archival sources Riehm and Hoffman provide a vivid account of Fields life and his part in the founding of the highest award in mathematics Filled with intriguing detail from a childhood on the shores of Lake Ontario through the mathematics seminars of late 19th century Berlin to the post WW1 years of the fragmented international mathematical community it is a richly textured story engagingly and sympathetically told Read this book and you will understand why Fields never wanted the medal to bear his name and yet why quite rightly it does June Barrow Green Open University Milton Keynes United Kingdom One of the little known effects of World War I was the collapse of international scientific cooperation In mathematics the discord continued after the war's end and after the Treaty of Versailles had been signed in 1919 Many distinguished scientists were involved in the war and its aftermath and from their letters and papers now almost a hundred years old we learn of their anguished wartime views and their struggles afterwards either to prolong the schism in mathematics or to end it J C Fields the foremost Canadian mathematician of his time was educated in Canada the United States and Germany and championed an international spirit of cooperation to further the frontiers of mathematics It was during the awkward post war period that J C Fields established the Fields Medal an international prize for outstanding research which soon became the highest award in mathematics J C Fields intended it to be an international medal and a glance at the varying backgrounds of the fifty two Fields medallists shows it to be so Who was Fields What carried him from Hamilton Canada West where he was

born in 1863 into the middle of this turbulent era of international scientific politics A modest mathematician he was an unassuming man This biography outlines Fields life and times and the difficult circumstances in which he created the Fields Medal It is the first such published study **Error Correction of Generalised Algebraic-geometry Codes** ,2004 *The Geometry of Moduli Spaces of Sheaves* Daniel Huybrechts,Manfred Lehn,2010-05-27 Now back in print this highly regarded book has been updated to reflect recent advances in the theory of semistable coherent sheaves and their moduli spaces which include moduli spaces in positive characteristic moduli spaces of principal bundles and of complexes Hilbert schemes of points on surfaces derived categories of coherent sheaves and moduli spaces of sheaves on Calabi Yau threefolds The authors review changes in the field since the publication of the original edition in 1997 and point the reader towards further literature References have been brought up to date and errors removed Developed from the authors lectures this book is ideal as a text for graduate students as well as a valuable resource for any mathematician with a background in algebraic geometry who wants to learn more about Grothendieck s approach

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