

algebraic geometry conference

Algebraic Geometry Conference: A Comprehensive Guide to Upcoming Events and Key Topics

Introduction:

Are you a mathematician, researcher, or student fascinated by the elegant interplay between algebra and geometry? Are you eager to delve into the latest advancements in algebraic geometry? Then you've come to the right place! This comprehensive guide will explore the world of algebraic geometry conferences, providing you with an overview of upcoming events, key topics discussed, and valuable resources to enhance your understanding of this fascinating field. We'll cover everything from finding the right conference for your interests to preparing for participation and maximizing your experience. Let's dive in!

1. Understanding the Significance of Algebraic Geometry Conferences:

Algebraic geometry conferences serve as vital hubs for the exchange of ideas, fostering collaboration and driving innovation within the mathematical community. These events bring together leading researchers, accomplished professors, and promising students from around the globe. The benefits of attending an algebraic geometry conference are numerous:

Networking Opportunities: Connect with leading experts, potential collaborators, and peers, expanding your professional network and opening doors to future opportunities.

Knowledge Sharing: Access cutting-edge research through presentations, workshops, and poster sessions. Learn about the latest breakthroughs and emerging trends in algebraic geometry.

Professional Development: Gain insights into new techniques, methodologies, and applications of algebraic geometry. Improve your presentation and communication skills through participation.

Career Advancement: Attending conferences can enhance your CV, demonstrating your commitment to your field and your desire to stay abreast of the latest developments.

1. Identifying Relevant Algebraic Geometry Conferences:

Finding the right conference requires careful planning and research. Several resources can help you locate relevant events:

Mathematical Society Websites: Organizations such as the American Mathematical Society (AMS), the European Mathematical Society (EMS), and national mathematical societies often publish comprehensive calendars of upcoming mathematical conferences.

Conference Databases: Specialized databases like MathSciNet and zbMATH offer extensive listings of mathematical conferences, often with detailed descriptions and abstracts of presented papers.

University Websites: Many leading universities host their own algebraic geometry conferences or workshops. Check the websites of renowned universities with strong mathematics departments.

Online Search Engines: Utilize targeted keywords such as "algebraic geometry conference 2024," "international algebraic geometry conference," or "algebraic geometry workshop [specific area of interest]" to find relevant events.

1. Key Topics Covered in Algebraic Geometry Conferences:

The specific topics covered at algebraic geometry conferences vary, reflecting the diverse and ever-evolving nature of the field. However, some recurring themes include:

Birational Geometry: Exploring the relationships between different algebraic varieties that are birationally equivalent.

Moduli Spaces: Studying the spaces that parameterize certain types of algebraic objects, such as curves, surfaces, or sheaves.

Arithmetic Geometry: The intersection of algebraic geometry and number theory, focusing on Diophantine equations and algebraic number fields.

Mirror Symmetry: Investigating the unexpected relationships between seemingly different algebraic varieties.

Tropical Geometry: A relatively new area that provides a combinatorial approach to problems in algebraic geometry.

Applications in Physics and Computer Science: Exploring the applications of algebraic geometry in areas such as string theory, cryptography, and computer-aided design.

1. Preparing for an Algebraic Geometry Conference:

Attending a conference requires careful preparation to maximize your experience. Consider these points:

Registration and Accommodation: Register early to secure your spot and

potentially obtain early-bird discounts. Book your accommodation well in advance, especially if attending an international conference.

Reviewing Abstracts: Browse the abstracts of presented papers to identify sessions that align with your interests.

Preparing Questions: Formulate questions to ask presenters to engage in meaningful discussions and deepen your understanding.

Networking Strategies: Plan to attend social events and networking opportunities to connect with other attendees.

Presenting Your Own Work (if applicable): If presenting, practice your presentation thoroughly and prepare for questions from the audience.

1. Maximizing Your Conference Experience:

To fully benefit from attending an algebraic geometry conference, focus on:

Active Participation: Engage actively in sessions, asking questions and participating in discussions.

Networking: Take advantage of opportunities to network with other attendees, exchanging contact information and building relationships.

Note-Taking: Take detailed notes during presentations and discussions to consolidate the information you gather.

Follow-up: After the conference, follow up with new contacts, sharing articles or research papers that might be of interest.

1. A Sample Algebraic Geometry Conference Outline:

Conference Title: Frontiers in Algebraic Geometry

Outline:

Introduction: Welcome address, overview of the conference program, and introductions of keynote speakers.

Chapter 1: Birational Geometry and Moduli Spaces: Presentations focusing on recent advancements in birational geometry and the study of moduli spaces.

Chapter 2: Arithmetic Geometry and Applications: Presentations on the interplay between algebraic geometry and number theory, and applications in cryptography.

Chapter 3: Mirror Symmetry and Related Topics: Presentations exploring mirror symmetry and its connections to other areas of mathematics and physics.

Chapter 4: Emerging Trends in Algebraic Geometry: Presentations on new research directions and emerging trends in the field.

Conclusion: Summary of key findings, concluding remarks, and announcements for future events.

1. Detailed Explanation of the Sample Conference Outline:

(a) Introduction: The opening session sets the stage by welcoming attendees and providing a roadmap for the conference. It typically features a brief overview of the topics to be covered and introduces the keynote speakers, who are usually prominent figures in the field of algebraic geometry.

(b) Chapter 1: Birational Geometry and Moduli Spaces: This chapter focuses on two closely related areas within algebraic geometry. Birational geometry investigates how algebraic varieties relate to each other through birational transformations, essentially changes that preserve the function field. Moduli spaces, on the other hand, provide a way to organize and study families of algebraic varieties with common properties. Presentations in this chapter would likely delve into recent breakthroughs in understanding these spaces and their applications.

(c) Chapter 2: Arithmetic Geometry and Applications: This chapter explores the powerful intersection of algebraic geometry and number theory. Arithmetic geometry uses the tools of algebraic geometry to study Diophantine equations (equations involving integers), which have fascinated mathematicians for centuries. Applications in cryptography often leverage the difficulty of solving certain Diophantine equations to ensure the security of encryption systems. Presentations here would likely highlight these connections and discuss new developments in the field.

(d) Chapter 3: Mirror Symmetry and Related Topics: Mirror symmetry is a remarkable phenomenon in algebraic geometry that reveals unexpected duality between seemingly disparate algebraic varieties. It has deep connections to string theory in physics and has led to significant progress in understanding the geometry of Calabi-Yau manifolds. Presentations in this chapter would explore the current understanding of mirror symmetry and its extensions to other areas of research.

(e) Chapter 4: Emerging Trends in Algebraic Geometry: This chapter serves as a platform for showcasing the latest research directions and exciting developments in algebraic geometry. Presentations here could cover topics such as tropical geometry, non-Archimedean geometry, or applications of algebraic geometry in other scientific disciplines. The focus would be on innovative approaches and future prospects.

(f) Conclusion: The concluding session summarizes the key findings and highlights presented throughout the conference. This section also provides an opportunity for the organizers to thank participants, speakers, and sponsors. Announcements of upcoming events or related conferences are often made during the closing session.

1. FAQs:

1. Q: How can I find funding to attend an algebraic geometry conference?

A: Many conferences offer travel grants or scholarships. Check the conference website for funding opportunities. You can also explore grants from your university, research institution, or professional societies.

1. Q: What should I wear to an algebraic geometry conference?

A: Conference attire is generally business casual. Comfortable clothing suitable for sitting through long sessions is recommended.

1. Q: How can I network effectively at an algebraic geometry conference?

A: Attend social events, introduce yourself to other attendees, actively participate in discussions, and exchange contact information.

1. Q: What is the best way to prepare a presentation for an algebraic geometry conference?

A: Clearly define your message, structure your presentation logically, practice your delivery, and anticipate questions from the audience.

1. Q: Are there online resources to help me understand algebraic geometry concepts?

A: Yes, numerous online resources, including textbooks, lecture notes, and video lectures, are available.

1. Q: How can I contribute to the algebraic geometry community?

A: Participate in conferences, publish your research, collaborate with other researchers, and mentor younger mathematicians.

1. Q: What are the career prospects for someone specializing in algebraic geometry?

A: Algebraic geometry experts find opportunities in academia, research institutions, and industries requiring advanced mathematical skills.

1. Q: Are there specific journals that publish algebraic geometry research?

A: Yes, several prestigious journals specialize in publishing research in algebraic geometry. Examples include the Annals of Mathematics, Inventiones Mathematicae, and the Journal of Algebraic Geometry.

1. Q: What is the difference between a workshop and a full-fledged conference?

A: Workshops are often smaller and more focused, usually concentrating on a specific subtopic within algebraic geometry. Conferences are typically larger events with a broader range of topics and a more diverse audience.

1. Related Articles:

1. The Riemann-Roch Theorem and its Applications: An exploration of this fundamental theorem in algebraic geometry and its diverse applications.
2. Introduction to Sheaf Cohomology: A beginner-friendly guide to understanding sheaf cohomology, a crucial tool in algebraic geometry.
3. Modern Developments in Birational Geometry: A survey of recent breakthroughs and open problems in birational geometry.
4. Algebraic Geometry and String Theory: An examination of the deep connections between algebraic geometry and string theory in physics.
5. Moduli Spaces of Curves: A detailed discussion of moduli spaces of curves, their properties, and their significance.
6. Tropical Geometry: A Combinatorial Approach to Algebraic Geometry: An introduction to tropical geometry, a new area with surprising applications.
7. Arithmetic Geometry and Diophantine Equations: Exploring the relationship between algebraic geometry and number theory through the lens of Diophantine equations.
8. Applications of Algebraic Geometry in Cryptography: Examining how algebraic geometry techniques are used in modern cryptographic systems.

9. A Beginner's Guide to Algebraic Varieties: A gentle introduction to the fundamental concepts of algebraic varieties.

algebraic geometry conference: ICM-90 Satellite Conference Proceedings Akira Fujiki, Kazuya Kato, Toshiyuki Katsura, Yujiro Kawamata, Yoichi Miyaoka, 2012-12-06 The International Conference Algebraic Geometry and Analytic Geometry, Tokyo 1990 was held at Tokyo Metropolitan University and the Tokyo Training Center of Daihyaku Mutual Life Insurance Co., from August 13 through August 17, 1990, under the co-sponsorship of the Mathematical Society of Japan. It was one of the satellite conferences of ICM90, Kyoto, and approximately 300 participants, including more than 100 from overseas, attended the conference. The academic program was divided into two parts, the morning sessions and the afternoon sessions. The morning sessions were held at Tokyo Metropolitan University, and two one-hour plenary lectures were delivered every day. The afternoon sessions at the Tokyo Training Center, intended for a more specialized audience, consisted of four separate subsessions: Arithmetic Geometry, Algebraic Geometry, Analytic Geometry I and Analytic Geometry II. This book contains papers which grew out of the talks at the conference. The committee in charge of the organization and program consisted of A. Fujiki, K. Kato, T. Katsura, Y. Kawamata, Y. Miyaoka, S. Mori, K. Saito, N. Sasakura, T. Suwa and K. Watanabe. We would like to take this opportunity to thank the many mathematicians and students who cooperated to make the conference possible, especially Professors T. Fukui, S. Ishii, Y. Kitaoka, M. Miyanishi, Y. Namikawa, T. Oda, F. Sakai and T. Shioda for their valuable advice and assistance in organizing this conference. Financial support was mainly provided by personal contributions from Professors M.

algebraic geometry conference: Algebraic Geometry A. Libgober, P. Wagreich, 2006-11-15
algebraic geometry conference: Local and Global Methods in Algebraic Geometry Nero Budur, Tommaso de Fernex, Roi Docampo, Kevin Tucker, 2018-07-26 This volume contains the proceedings of the conference Local and Global Methods in Algebraic Geometry, held from May 12-15, 2016, at the University of Illinois at Chicago, in honor of Lawrence Ein's 60th birthday. The articles cover a broad range of topics in algebraic geometry and related fields, including birational geometry and moduli theory, analytic and positive characteristic methods, geometry of surfaces, singularity theory, hyper-Kähler geometry, rational points, and rational curves.

algebraic geometry conference: A Celebration of Algebraic Geometry Brendan Hassett, James McKernan, Jason Starr, Ravi Vakil, 2013-09-11 This volume resulted from the conference A Celebration of Algebraic Geometry, which was held at Harvard University from August 25-28, 2011, in honor of Joe Harris' 60th birthday. Harris is famous around the world for his lively textbooks and enthusiastic teaching, as well as for his seminal research contributions. The articles are written in this spirit: clear, original, engaging, enlivened by examples, and accessible to young mathematicians. The articles in this volume focus on the moduli space of curves and more general varieties, commutative algebra, invariant theory, enumerative geometry both classical and modern, rationally connected and Fano varieties, Hodge theory and abelian varieties, and Calabi-Yau and hyperkähler manifolds. Taken together, they present a comprehensive view of the long frontier of current knowledge in algebraic geometry. Titles in this series are co-published with the Clay Mathematics Institute (Cambridge, MA).

algebraic geometry conference: 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.

algebraic geometry conference: Algebraic Geometry I. Dolgachev, 1983-08

algebraic geometry conference: Algebraic Geometry and its Applications Alexander Tikhomirov, Andrej Tyurin, 2012-12-06 This volume contains 18 papers at the Algebraic Geometry Conference, Yaroslavl', August 10-14, 1992. These conferences in algebraic geometry have a great tradition in Russia and are held since 1979 in Yaroslavl' every second year. The present conference, the eighth one, was the first in which several foreign mathematicians participated. From the Russian side, there was a large group of specialists in algebraic geometry and related fields (invariant theory, topology of manifolds, theory of categories, mathematical physics etc.). Lectures on modern directions in algebraic geometry, such as the theory of exceptional bundles and helices on algebraic varieties, moduli of vector bundles on algebraic surfaces with applications to Donaldson's theory, geometry of Hilbert schemes of points, twistor spaces and applications to string theory, and more traditional areas, such as birational geometry of manifolds, adjunction theory, Hodge theory, problems of rationality in the invariant theory, topology of complex algebraic varieties, and others are contained in this volume.

algebraic geometry conference: Real Algebraic Geometry and Topology Selman Akbulut, 1995 This book contains the proceedings of the Real Algebraic Geometry-Topology Conference, held at Michigan State University in December 1993. Presented here are recent results and discussions of new ideas pertaining to such topics as resolution theorems, algebraic structures, topology of nonsingular real algebraic sets, and the distribution of real algebraic sets in projective space.

algebraic geometry conference: Interactions of Classical and Numerical Algebraic Geometry Daniel James Bates, 2009-09-16 This volume contains the proceedings of the conference on Interactions of Classical and Numerical Algebraic Geometry, held May 22-24, 2008, at the University of Notre Dame, in honor of the achievements of Professor Andrew J. Sommese. While classical algebraic geometry has been studied for hundreds of years, numerical algebraic geometry has only recently been developed. Due in large part to the work of Andrew Sommese and his collaborators, the intersection of these two fields is now ripe for rapid advancement. The primary goal of both the conference and this volume is to foster the interaction between researchers interested in classical algebraic geometry and those interested in numerical methods. The topics in this book include (but are not limited to) various new results in complex algebraic geometry, a primer on Seshadri constants, analyses and presentations of existing and novel numerical homotopy methods for solving polynomial systems, a numerical method for computing the dimensions of the cohomology of twists of ideal sheaves, and the application of algebraic methods in kinematics and phylogenetics.

algebraic geometry conference: Local and Global Methods in Algebraic Geometry Nero Budur, Tommaso De Fernex, Roi Docampo, Kevin Tucker (Mathematician), 2018 This volume contains the proceedings of the conference Local and Global Methods in Algebraic Geometry, held from May 12-15, 2016, at the University of Illinois at Chicago, in honor of Lawrence Ein's 60th birthday. The articles cover a broad range of topics in algebraic geometry and related fields, including birational geometry and moduli theory, analytic and positive characteristic methods, geometry of surfaces, singularity theory, hyper-Kähler geometry, rational points, and rational curves.

algebraic geometry conference: Effective Methods in Algebraic Geometry Teo Mora, 1991 The symposium MEGA-90 - Effective Methods in Algebraic Geometry was held in Castiglione della Pescaia.

(Livorno, Italy) in April 17-21 1990. The themes - we quote from the Call for papers - were the following: - Effective methods and complexity issues in commutative algebra, projective geometry, real geometry, algebraic number theory - Algebraic geometric methods in algebraic computing Contributions in related fields (computational aspects of group theory, differential algebra and geometry, algebraic and differential topology, etc.) were also welcome. The origin and the motivation of such a meeting, that is supposed to be the first of a series, deserves to be explained. The subject - the theory and the practice of computation in algebraic geometry and related domains from the mathematical viewpoint - has been one of the themes of the symposia organized by SIGSAM (the Special Interest Group for Symbolic and Algebraic Manipulation of the Association for Computing Machinery), SAME (Symbolic and Algebraic Manipulation in Europe), and AAEC (the semantics of the name is varying; an average meaning is Applied Algebra and Error Correcting Codes).

algebraic geometry conference: Classification of Algebraic Varieties Ciro Ciliberto, 1994 This volume contains the proceedings of the Algebraic Geometry Conference on Classification of Algebraic Varieties, held in May 1992 at the University of L'Aquila in Italy. The papers discuss a wide variety of problems that illustrate interactions between algebraic geometry and other branches of mathematics. Among the topics covered are algebraic curve theory, algebraic surface theory, the theory of minimal models, braid groups and the topology of algebraic varieties, toric varieties. In addition to algebraic geometers, theoretical physicists in some areas will find this book useful. The book is also suitable for an advanced graduate course in algebraic geometry, as it provides an overview of areas of current research.

algebraic geometry conference: Recent Progress in Arithmetic and Algebraic Geometry Yasuyuki Kachi, S. B. Mulay, Pavlos Tzermias, 2005 This proceedings volume resulted from the John H. Barrett Memorial Lecture Series held at the University of Tennessee (Knoxville). The articles reflect recent developments in algebraic geometry. It is suitable for graduate students and researchers interested in algebra and algebraic geometry.

algebraic geometry conference: The Lefschetz Centennial Conference. Part I: Proceedings on Algebraic Geometry D. Sundararaman, 1986 Contains many of the papers in the area of algebraic geometry presented at the 1984 Solomon Lefschetz Centennial Conference held in Mexico City. This work also focuses on the areas of algebraic topology and differential equations where Lefschetz made significant contributions.

algebraic geometry conference: Algebraic Geometry J. M. Aroca, R. Buchweitz, M. Giusti, M. Merle, 2006-11-15

algebraic geometry conference: Hopf Algebras and Their Actions on Rings Susan Montgomery, 1993-10-28 The last ten years have seen a number of significant advances in Hopf algebras. The best known is the introduction of quantum groups, which are Hopf algebras that arose in mathematical physics and now have connections to many areas of mathematics. In addition, several conjectures of Kaplansky have been solved, the most striking of which is a kind of Lagrange's theorem for Hopf algebras. Work on actions of Hopf algebras has unified earlier results on group actions, actions of Lie algebras, and graded algebras. This book brings together many of these recent developments from the viewpoint of the algebraic structure of Hopf algebras and their actions and coactions. Quantum groups are treated as an important example, rather than as an end in themselves. The two introductory chapters review definitions and basic facts; otherwise, most of the material has not previously appeared in book form. Providing an accessible introduction to Hopf algebras, this book would make an excellent graduate textbook for a course in Hopf algebras or an introduction to quantum groups.

algebraic geometry conference: Algebraic Geometry, Arcata 1974 Robin Hartshorne, American Mathematical Society, 1975-12-31

algebraic geometry conference: Algebraic Geometry H. Kurke, J.H.M. Steenbrink, 2012-12-06 The Conference on Algebraic Geometry, held in Berlin 9-15 March 1988, was organised by the Sektion Mathematik of the Humboldt-Universität. The organising committee consisted of H.

Kurke, W. Kleinert, G. Pfister and M. Roczen. The Conference is one in a series organised by the Humboldt-Universität at regular intervals of two or three years, with the purpose of providing a meeting place for mathematicians from eastern and western countries. The present volume contains elaborations of part of the lectures presented at the Conference and some articles on related subjects. All papers were subject to the regular refereeing procedure of *Compositio Mathematica*, and H. Kurke acted as a guest editor of this journal. The papers focus on actual themes in algebraic geometry and singularity theory, such as vector bundles, arithmetical algebraic geometry, intersection theory, moduli and Hodge theory. We are grateful to all those who, by their hospitality, their presence at the Conference, their support or their written contributions, have made this Conference a success. The editors *Compositio Mathematica* 76: viii, 1990.

algebraic geometry conference: Toposes, Algebraic Geometry and Logic F. W. Lawvere, 2006-11-14

algebraic geometry conference: Algebraic Geometry ,

algebraic geometry conference: Algebraic Geometry and Geometric Modeling Mohamed Elkadi, Bernard Mourrain, Ragni Piene, 2006-11-02 This book spans the distance between algebraic descriptions of geometric objects and the rendering of digital geometric shapes based on algebraic models. These contrasting points of view inspire a thorough analysis of the key challenges and how they are met. The articles focus on important classes of problems: implicitization, classification, and intersection. Combining illustrative graphics, computations and review articles this book helps the reader gain a firm practical grasp of these subjects.

algebraic geometry conference: Affine Algebraic Geometry Kayo Masuda, Hideo Kojima, Takashi Kishimoto, 2013 The present volume grew out of an international conference on affine algebraic geometry held in Osaka, Japan during 3-6 March 2011 and is dedicated to Professor Masayoshi Miyanishi on the occasion of his 70th birthday. It contains 16 refereed articles in the areas of affine algebraic geometry, commutative algebra and related fields, which have been the working fields of Professor Miyanishi for almost 50 years. Readers will be able to find recent trends in these areas too. The topics contain both algebraic and analytic, as well as both affine and projective, problems. All the results treated in this volume are new and original which subsequently will provide fresh research problems to explore. This volume is suitable for graduate students and researchers in these areas.

algebraic geometry conference: Real Algebraic Geometry Michel Coste, Louis Mahe, Marie-Francoise Roy, 2006-11-15 Ten years after the first Rennes international meeting on real algebraic geometry, the second one looked at the developments in the subject during the intervening decade - see the 6 survey papers listed below. Further contributions from the participants on recent research covered real algebra and geometry, topology of real algebraic varieties and 16th Hilbert problem, classical algebraic geometry, techniques in real algebraic geometry, algorithms in real algebraic geometry, semialgebraic geometry, real analytic geometry. CONTENTS: Survey papers: M. Knebusch: Semialgebraic topology in the last ten years.- R. Parimala: Algebraic and topological invariants of real algebraic varieties.- Polotovskii, G.M.: On the classification of decomposing plane algebraic curves.- Scheiderer, C.: Real algebra and its applications to geometry in the last ten years: some major developments and results.- Shustin, E.L.: Topology of real plane algebraic curves.- Silhol, R.: Moduli problems in real algebraic geometry. Further contributions by: S. Akbulut and H. King; C. Andradas and J. Ruiz; A. Borobia; L. Brückner; G.W. Brumfield; A. Castilla; Z. Charzynski and P. Skibinski; M. Coste and M. Reguiat; A. Degtyarev; Z. Denkowska; J.-P. Francoise and F. Ronga; J.M. Gamboa and C. Ueno; D. Gondard- Cozette; I.V. Itenberg; P. Jaworski; A. Korchagin; T. Krasinski and S. Spodzieja; K. Kurdyka; H. Lombardi; M. Marshall and L. Walter; V.F. Mazurovskii; G. Mikhalkin; T. Mostowski and E. Rannou; E.I. Shustin; N. Vorobjov.

algebraic geometry conference: Algebraic and Geometric Combinatorics E. Mendelsohn, 1982-01-01 Algebraic and Geometric Combinatorics

algebraic geometry conference: Algebraic Geometry J. M. Aroca, R. Buchweitz, M. Giusti, M. Merle, 1982-12-01

algebraic geometry conference: Algebraic Geometry: Hirzebruch 70 Friedrich Hirzebruch, Piotr Pragacz, Michal Szurek, Jarosław Wiśniewski, 1999 This book presents the proceedings from the conference on algebraic geometry in honor of Professor Friedrich Hirzebruch's 70th Birthday. The event was held at the Stefan Banach International Mathematical Center in Warsaw (Poland). Topics covered in the book include intersection theory, singularities, low-dimensional manifolds, moduli spaces, number theory, and interactions between mathematical physics and geometry. Also included are articles from notes of two special lectures. The first, by Professor M. Atiyah, describes the important contributions to the field of geometry by Professor Hirzebruch. The second article contains notes from the talk delivered at the conference by Professor Hirzebruch. Contributors to the volume are leading researchers in the field.

algebraic geometry conference: Algebraic Geometry: Sundance 1988 Brian Harbourne, 1991 This volume contains the proceedings of the NSF-CBMS Regional Conference on Algebraic Geometry, held in Sundance, Utah in July 1988. The conference focused on algebraic curves and related varieties. Some of the papers collected here represent lectures delivered at the conference, some report on research done during the conference, while others describe related work carried out elsewhere.

algebraic geometry conference: Computational Algebraic Geometry Frederic Eyssette, Andre Galligo, 2012-12-06 The theory and practice of computation in algebraic geometry and related domains, from a mathematical point of view, has generated an increasing interest both for its rich theoretical possibilities and its usefulness in applications in science and engineering. In fact, it is one of the master keys for future significant improvement of the computer algebra systems (e.g., Reduce, Macsyma, Maple, Mathematica, Axiom, Macaulay, etc.) that have become such useful tools for many scientists in a variety of disciplines. The major themes covered in this volume, arising from papers presented at the conference MEGA-92 were: - Effective methods and complexity issues in commutative algebra, projective geometry, real geometry, and algebraic number theory - Algebra-geometric methods in algebraic computing and applications. MEGA-92 was the second of a new series of European conferences on the general theme of Effective Methods in Algebraic Geometry. It was held in Nice, France, on April 21-25, 1992 and built on the themes presented at MEGA-90 (Livorno, Italy, April 17-21, 1990). The next conference - MEGA-94 - will be held in Santander, Spain in the spring of 1994. The Organizing committee that initiated and supervises this biennial conference consists of A. Conte (Torino), J.H. Davenport (Bath), A. Galligo (Nice), D. Yu. Grigoriev (Petersburg), J. Heintz (Buenos Aires), W. Lassner (Leipzig), D. Lazard (Paris), H.M. Möller (Hagen), T. Mora (Genova), M. Pohst (Düsseldorf), T. Recio (Santander), J.J.

algebraic geometry conference: Algebraic Geometry L. Badescu, D. Popescu, 2006-11-14

algebraic geometry conference: Introduction to Intersection Theory in Algebraic Geometry William Fulton, 1984 Introduces some of the main ideas of modern intersection theory, traces their origins in classical geometry and sketches a few typical applications. Suitable for graduate students in mathematics, this book describes the construction and computation of intersection products by means of the geometry of normal cones.

algebraic geometry conference: Algebraic Geometry for Coding Theory and Cryptography Everett W. Howe, Kristin E. Lauter, Judy L. Walker, 2017-11-15 Covering topics in algebraic geometry, coding theory, and cryptography, this volume presents interdisciplinary group research completed for the February 2016 conference at the Institute for Pure and Applied Mathematics (IPAM) in cooperation with the Association for Women in Mathematics (AWM). The conference gathered research communities across disciplines to share ideas and problems in their fields and formed small research groups made up of graduate students, postdoctoral researchers, junior faculty, and group leaders who designed and led the projects. Peer reviewed and revised, each of this volume's five papers achieves the conference's goal of using algebraic geometry to address a problem in either coding theory or cryptography. Proposed variants of the McEliece cryptosystem based on different constructions of codes, constructions of locally recoverable codes from algebraic curves and surfaces, and algebraic approaches to the multicast network coding problem are only

some of the topics covered in this volume. Researchers and graduate-level students interested in the interactions between algebraic geometry and both coding theory and cryptography will find this volume valuable.

algebraic geometry conference: *Commutative Algebra* Luchezar L. Avramov, 2003 This volume contains 21 articles based on invited talks given at two international conferences held in France in 2001. Most of the papers are devoted to various problems of commutative algebra and their relation to properties of algebraic varieties. The book is suitable for graduate students and research mathematicians interested in commutative algebra and algebraic geometry.

algebraic geometry conference: Stacks and Categories in Geometry, Topology, and Algebra Tony Pantev, Carlos Simpson, Bertrand Toën, Michel Vaquié, Gabriele Vezzosi, 2015-06-26 This volume contains the proceedings of the CATS4 Conference on Higher Categorical Structures and their Interactions with Algebraic Geometry, Algebraic Topology and Algebra, held from July 2-7, 2012, at CIRM in Luminy, France. Over the past several years, the CATS conference series has brought together top level researchers from around the world interested in relative and higher category theory and its applications to classical mathematical domains. Included in this volume is a collection of articles covering the applications of categories and stacks to geometry, topology and algebra. Techniques such as localization, model categories, simplicial objects, sheaves of categories, mapping stacks, dg structures, hereditary categories, and derived stacks, are applied to give new insight on cluster algebra, Lagrangians, trace theories, loop spaces, structured surfaces, stability, ind-coherent complexes and 1-affineness showing up in geometric Langlands, branching out to many related topics along the way.

algebraic geometry conference: *Algebraic Geometry* M. Raynaud, T. Shioda, 2006-12-08

algebraic geometry conference: *Proceedings of the 1984 Vancouver Conference in Algebraic Geometry* James B. Carrell, A. V. Geramita, Peter Russell, Natural Sciences and Engineering Research Council Canada, University of British Columbia, 1986 Covers a cross-section of the developments in modern algebraic geometry. This work covers topics including algebraic groups and representation theory, enumerative geometry, Schubert varieties, rationality, compactifications and surfaces.

algebraic geometry conference: Complex Analysis and Algebraic Geometry Hans Grauert, 2006-11-14

algebraic geometry conference: 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-Söderberg 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.

algebraic geometry conference: *Complex and Differential Geometry* Wolfgang Ebeling, Klaus Hulek, Knut Smoczyk, 2011-06-27 This volume contains the Proceedings of the conference Complex and Differential Geometry 2009, held at Leibniz Universität Hannover, September 14 - 18, 2009. It was the aim of this conference to bring specialists from differential geometry and (complex) algebraic geometry together and to discuss new developments in and the interaction between these fields. Correspondingly, the articles in this book cover a wide area of topics, ranging from topics in (classical) algebraic geometry through complex geometry, including (holomorphic) symplectic and poisson geometry, to differential geometry (with an emphasis on curvature flows) and topology.

algebraic geometry conference: *Algebraic Geometry. Sundance 1986* Audun Holme, Robert Speiser, 2006-11-14 This volume presents selected papers resulting from the meeting at Sundance on enumerative algebraic geometry. The papers are original research articles and concentrate on the underlying geometry of the subject.

algebraic geometry conference: Algebraic Geometry José M. Aroca, International Mathematical Union, 1982

Additional Resources

algebraic geometry conference

[Algebraic Geometry Conference](#)

Algebraic Geometry Conference

Related Articles

- [america the story of us boom answer key](#)
- [amazing facts questions and answers](#)
- [amoeba sisters alleles and genes answer key](#)

[Back to Home](#)