

princeton university math department

princeton university math department is renowned worldwide for its excellence in mathematical research, education, and innovation. The department has a rich history of fostering groundbreaking discoveries and nurturing some of the most influential mathematicians in the world. With a commitment to advancing both pure and applied mathematics, the Princeton University Math Department offers comprehensive academic programs, cutting-edge research opportunities, and a vibrant intellectual community. This article explores the structure, research areas, academic offerings, faculty, and student life associated with this prestigious department. The detailed overview aims to provide a clear understanding of what makes the Princeton University Math Department a leader in the field of mathematics.

- Overview of the Princeton University Math Department
- Academic Programs and Curriculum
- Research Areas and Initiatives
- Faculty and Notable Scholars
- Student Opportunities and Community
- Facilities and Resources

Overview of the Princeton University Math Department

The Princeton University Math Department is a cornerstone of the university's commitment to scientific excellence. Established as one of the oldest and most prestigious mathematics departments in the United States, it has consistently contributed to the development of mathematical sciences. The department emphasizes both rigorous theoretical foundations and practical applications, attracting a diverse group of students and researchers from around the globe. It strives to create an inclusive environment that encourages collaboration and intellectual growth. The department's location within Princeton offers access to a stimulating academic setting, enriched by numerous interdisciplinary connections across the university.

Academic Programs and Curriculum

The academic offerings at the Princeton University Math Department cater to undergraduate, graduate, and doctoral students interested in deepening their understanding of mathematics. The curriculum is designed to balance foundational coursework with advanced study and research experiences. Students benefit from a well-structured program that promotes critical thinking, problem-solving skills, and mathematical rigor.

Undergraduate Programs

Undergraduates pursuing mathematics at Princeton engage in a comprehensive set of courses that cover algebra, analysis, geometry, topology, and applied mathematics. The department encourages participation in seminars and research projects to complement classroom learning. Additionally, students have the option to pursue joint concentrations or minors in related fields such as computer science, physics, or economics.

Graduate and Doctoral Programs

Graduate students in the Princeton University Math Department undertake intensive coursework and original research leading to a Ph.D. The doctoral program is distinguished by its mentorship from world-class faculty members and its strong emphasis on independent research. Graduate seminars and workshops foster collaboration and expose students to the latest developments in various mathematical disciplines.

Course Highlights

- Real and Complex Analysis
- Abstract Algebra and Number Theory
- Differential Geometry and Topology
- Partial Differential Equations
- Probability and Statistics
- Mathematical Physics and Applied Mathematics

Research Areas and Initiatives

The Princeton University Math Department is at the forefront of numerous research fields, contributing significantly to both theoretical and applied mathematics. Its faculty and students engage in projects that address fundamental questions and practical challenges across a spectrum of disciplines.

Pure Mathematics

Research in pure mathematics at Princeton spans areas such as algebraic geometry, number theory, topology, and mathematical logic. The department supports deep theoretical investigations that often lead to breakthroughs with wide-ranging implications in mathematics and beyond.

Applied Mathematics and Interdisciplinary Research

The department also prioritizes applied mathematics, focusing on areas like mathematical physics, computational mathematics, and data science. Collaborative initiatives with other departments and research centers enhance the impact of these studies on fields such as biology, economics, and engineering.

Research Centers and Programs

- Institute for Advanced Study collaboration
- Mathematical Sciences Research Institute (MSRI) partnerships
- Princeton Applied Mathematics Laboratory projects
- Interdisciplinary workshops and conferences

Faculty and Notable Scholars

The strength of the Princeton University Math Department is reflected in its distinguished faculty, who are leaders in their respective fields. The department boasts numerous recipients of prestigious awards including Fields Medals, Abel Prizes, and memberships in national academies. These scholars contribute to a dynamic academic environment that supports innovation and mentorship.

Renowned Faculty Members

Faculty members are actively involved in cutting-edge research, teaching, and guiding students through complex mathematical concepts. Their expertise encompasses a broad range of mathematical disciplines, fostering a comprehensive and diverse intellectual community.

Visiting Scholars and Lecturers

The department regularly hosts visiting professors and lecturers from around the world, enriching the academic experience with fresh perspectives and specialized knowledge. These engagements provide students and faculty with opportunities to engage with leading mathematicians and emerging areas of research.

Student Opportunities and Community

The Princeton University Math Department offers a vibrant and supportive community for students passionate about mathematics. Beyond academics, the department fosters a collaborative culture through various programs and extracurricular activities.

Research and Internship Opportunities

Students have access to research fellowships, summer internships, and assistantships that provide hands-on experience in mathematical research and applications. These opportunities prepare students for careers in academia, industry, and beyond.

Student Organizations and Events

The department supports math clubs, problem-solving groups, and outreach initiatives that engage students in enriching mathematical activities. Regular seminars, colloquia, and conferences provide platforms for students to present work and interact with peers and experts.

Career Development

- Workshops on academic and industry career paths
- Networking events with alumni and professionals

- Guidance on graduate school applications and fellowships

Facilities and Resources

The Princeton University Math Department is equipped with state-of-the-art facilities and resources that enhance learning and research. These include modern classrooms, computational labs, and extensive library collections dedicated to mathematics and related fields.

Computational Resources

Advanced computing facilities support research that requires high-performance computing and complex simulations. These resources enable faculty and students to tackle challenging mathematical problems efficiently.

Library and Learning Materials

The department benefits from access to one of the most comprehensive mathematics libraries, containing journals, books, and digital resources essential for research and study. Collaborative study spaces encourage group work and intellectual exchange.

Frequently Asked Questions

What are the main research areas of the Princeton University Math Department?

The Princeton University Math Department focuses on a wide range of research areas including algebraic geometry, number theory, topology, mathematical physics, analysis, and combinatorics.

How can prospective students apply to the graduate program in Princeton's Math Department?

Prospective graduate students can apply to Princeton's Math Department through the Graduate School's online application portal, typically requiring transcripts, letters of recommendation, a statement of purpose, and GRE scores.

Who are some notable faculty members in the Princeton University Math Department?

Notable faculty include Fields Medalists Manjul Bhargava and Akshay Venkatesh, as well as other distinguished mathematicians like Peter Sarnak and Elias Stein.

Does Princeton's Math Department offer undergraduate seminars or research opportunities?

Yes, Princeton offers undergraduate seminars, independent study options, and research opportunities through programs like the Senior Thesis and Summer Undergraduate Research Experience (SURE).

What resources are available for students in the Princeton Math Department?

Students have access to resources such as the Mathematics Library, tutoring programs, workshops, and seminars by leading mathematicians, as well as computing facilities and collaboration spaces.

How does Princeton's Math Department rank globally?

Princeton's Math Department is consistently ranked among the top mathematics departments worldwide, recognized for its outstanding faculty, research output, and academic programs.

Additional Resources

1. *Principles of Mathematical Analysis* by Walter Rudin

This classic text, often referred to as "Baby Rudin," is widely used in undergraduate and graduate analysis courses. It covers the fundamentals of real and complex analysis, including metric spaces, sequences, series, and differentiation. Rudin's clear and concise writing style makes it a staple in many mathematics departments, including Princeton's.

2. *Algebra* by Serge Lang

Serge Lang's comprehensive algebra textbook is a cornerstone for students studying abstract algebra at an advanced level. The book covers groups, rings, fields, modules, and Galois theory with depth and rigor. It has been a key resource for Princeton's math department courses and research.

3. *Introduction to Topological Manifolds* by John M. Lee

This book provides an accessible introduction to the theory of topological manifolds, a fundamental topic in modern mathematics. It explores concepts such as continuity, compactness, and connectedness, paving the way for more advanced studies in differential geometry and topology. Princeton's math department often recommends this text for students entering manifold theory.

4. *Commutative Algebra* by David Eisenbud

Eisenbud's text is a modern treatment of commutative algebra with a strong emphasis on connections to algebraic geometry. It is known for its clarity and extensive examples. Many Princeton graduate students use this book to build a solid foundation in algebraic structures relevant to research.

5. *Partial Differential Equations* by Lawrence C. Evans

A widely used graduate-level text, Evans' book covers the theory and applications of partial differential equations (PDEs). It integrates rigorous mathematical theory with applied methods, making it valuable for both pure and applied mathematicians. Princeton's math department frequently includes this book in PDE coursework.

6. *Representation Theory: A First Course* by William Fulton and Joe Harris

This introductory text presents the fundamentals of representation theory of groups and Lie algebras. It is well-regarded for its clear exposition and numerous examples, bridging abstract theory with concrete applications. Princeton math students studying algebra and geometry often rely on this book.

7. *Algebraic Topology* by Allen Hatcher

Hatcher's *Algebraic Topology* is a standard reference for students and researchers alike. It covers fundamental groups, homology, and cohomology, providing intuitive explanations alongside rigorous proofs. The text is freely available online and widely used within Princeton's topology courses.

8. *Measure Theory and Fine Properties of Functions* by Lawrence C. Evans and Ronald F. Gariepy

This advanced book delves into measure theory and the fine properties of functions of bounded variation and Sobolev spaces. It combines theory with applications in analysis and PDEs. The Princeton math department recommends it for students focusing on real analysis and geometric measure theory.

9. *Princeton Companion to Mathematics* edited by Timothy Gowers

This comprehensive volume offers an extensive overview of modern mathematics, written by leading mathematicians. It covers a broad spectrum of topics, historical insights, and biographical sketches. The companion is a valuable resource for Princeton students and faculty, capturing the spirit and breadth of the department's mathematical research.

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princeton university math department: Sixth Marcel Grossmann Meeting, The: On Recent Developments In Theoretical And Experimental General Relativity, Gravitation And

Relativistic Field Theories (In 2 Volumes) Humitaka Sato, 1993-01-08 The Marcel Grossmann Meetings have been conceived with the aim of reviewing recent advances in gravitation and general relativity, with particular emphasis on mathematical foundations and physical predictions. The overall programme includes the broad categories of mathematical techniques, cosmology, quantum gravity, astrophysics, gravitational radiation and experimental developments. The proceedings contain invited and contributed papers.

princeton university math department: Different Faces of Geometry Simon Donaldson, Yakov Eliashberg, Misha Gromov, 2006-04-11 Different Faces of Geometry - edited by the world renowned geometers S. Donaldson, Ya. Eliashberg, and M. Gromov - presents the current state, new results, original ideas and open questions from the following important topics in modern geometry: These apparently diverse topics have a common feature in that they are all areas of exciting current activity. The Editors have attracted an impressive array of leading specialists to author chapters for this volume: G. Mikhalkin (USA-Canada-Russia), V.D. Milman (Israel) and A.A. Giannopoulos (Greece), C. LeBrun (USA), Ko Honda (USA), P. Ozsvath (USA) and Z. Szabo (USA), C. Simpson (France), D. Joyce (UK) and P. Seidel (USA), and S. Bauer (Germany). One can distinguish various themes running through the different contributions. There is some emphasis on invariants defined by elliptic equations and their applications in low-dimensional topology, symplectic and contact geometry (Bauer, Seidel, Ozsvath and Szabo). These ideas enter, more tangentially, in the articles of Joyce, Honda and LeBrun. Here and elsewhere, as well as explaining the rapid advances that have been made, the articles convey a wonderful sense of the vast areas lying beyond our current understanding. Simpson's article emphasizes the need for interesting new constructions (in that case of Kahler and algebraic manifolds), a point which is also made by Bauer in the context of 4-manifolds and the 11/8 conjecture. LeBrun's article gives another perspective on 4-manifold theory, via Riemannian geometry, and the challenging open questions involving the geometry of even well-known 4-manifolds. There are also striking contrasts between the articles. The authors have taken different approaches: for example, the thoughtful essay of Simpson, the new research results of LeBrun and the thorough expositions with homework problems of Honda. One can also ponder the differences in the style of mathematics. In the articles of Honda, Giannopoulos and Milman, and Mikhalkin, the geometry is present in a very vivid and tangible way; combining respectively with topology, analysis and algebra. The papers of Bauer and Seidel, on the other hand, makes the point that algebraic and algebro-topological abstraction (triangulated categories, spectra) can play an important role in very unexpected ways in concrete geometric problems. - From the Preface by the Editors

princeton university math department: The New Mathematical Coloring Book Alexander Soifer, 2024-03-11 The New Mathematical Coloring Book (TNMCB) includes striking results of the past 15-year renaissance that produced new approaches, advances, and solutions to problems from the first edition. A large part of the new edition "Ask what your computer can do for you," presents the recent breakthrough by Aubrey de Grey and works by Marijn Heule, Jaan Parts, Geoffrey Exoo, and Dan Ismailescu. TNMCB introduces new open problems and conjectures that will pave the way to the future keeping the book in the center of the field. TNMCB presents mathematics of coloring as an evolution of ideas, with biographies of their creators and historical setting of the world around them, and the world around us. A new thing in the world at the time, TMCB I is now joined by a colossal sibling containing more than twice as much of what only Alexander Soifer can deliver: an interweaving of mathematics with history and biography, well-seasoned with controversy and opinion. -Peter D. Johnson, Jr. Auburn University Like TMCB I, TMCB II is a unique combination of Mathematics, History, and Biography written by a skilled journalist who has been intimately involved with the story for the last half-century. ...The nature of the subject makes much of the material accessible to students, but also of interest to working Mathematicians. ... In addition to learning some wonderful Mathematics, students will learn to appreciate the influences of Paul Erdős, Ron Graham, and others. -Geoffrey Exoo Indiana State University The beautiful and unique Mathematical coloring book of Alexander Soifer is another case of "good mathematics", containing a lot of similar

examples (it is not by chance that Szemerédi's Theorem story is included as well) and presenting mathematics as both a science and an art...-Peter MihókMathematical Reviews, MathSciNet A postman came to the door with a copy of the masterpiece of the century. I thank you and the mathematics community should thank you for years to come. You have set a standard for writing about mathematics and mathematicians that will be hard to match.- Harold W. KuhnPrinceton University I have never encountered a book of this kind. The best description of it I can give is that it is a mystery novel... I found it hard to stop reading before I finished (in two days) the whole text. Soifer engages the reader's attention not only mathematically, but emotionally and esthetically. May you enjoy the book as much as I did!- Branko GrünbaumUniversity of Washington I am in absolute awe of your 2008 book. -Aubrey D.N.J. de Grey LEV Foundation

princeton university math department: *Interactions Between Hyperbolic Geometry, Quantum Topology and Number Theory* Abhijit Champanerkar, 2011 This book is based on a 10-day workshop given by leading experts in hyperbolic geometry, quantum topology and number theory, in June 2009 at Columbia University. Each speaker gave a minicourse consisting of three or four lectures aimed at graduate students and recent PhDs. The proceedings of this enormously successful workshop can serve as an introduction to this active research area in a way that is expository and broadly accessible to graduate students. Although many ideas overlap, the twelve expository/research papers in this volume can be grouped into four rough categories: (1) different approaches to the Volume Conjecture, and relations between the main quantum and geometric invariants; (2) the geometry associated to triangulations of hyperbolic 3-manifolds; (3) arithmetic invariants of hyperbolic 3-manifolds; (4) quantum invariants associated to knots and hyperbolic 3-manifolds. The workshop, the conference that followed, and these proceedings continue a long tradition in quantum and geometric topology of bringing together ideas from diverse areas of mathematics and physics, and highlights the importance of collaborative research in tackling big problems that require expertise in disparate disciplines.

princeton university math department: Numerical Methods for Stochastic Partial Differential Equations with White Noise Zhongqiang Zhang, George Em Karniadakis, 2017-09-01 This book covers numerical methods for stochastic partial differential equations with white noise using the framework of Wong-Zakai approximation. The book begins with some motivational and background material in the introductory chapters and is divided into three parts. Part I covers numerical stochastic ordinary differential equations. Here the authors start with numerical methods for SDEs with delay using the Wong-Zakai approximation and finite difference in time. Part II covers temporal white noise. Here the authors consider SPDEs as PDEs driven by white noise, where discretization of white noise (Brownian motion) leads to PDEs with smooth noise, which can then be treated by numerical methods for PDEs. In this part, recursive algorithms based on Wiener chaos expansion and stochastic collocation methods are presented for linear stochastic advection-diffusion-reaction equations. In addition, stochastic Euler equations are exploited as an application of stochastic collocation methods, where a numerical comparison with other integration methods in random space is made. Part III covers spatial white noise. Here the authors discuss numerical methods for nonlinear elliptic equations as well as other equations with additive noise. Numerical methods for SPDEs with multiplicative noise are also discussed using the Wiener chaos expansion method. In addition, some SPDEs driven by non-Gaussian white noise are discussed and some model reduction methods (based on Wick-Malliavin calculus) are presented for generalized polynomial chaos expansion methods. Powerful techniques are provided for solving stochastic partial differential equations. This book can be considered as self-contained. Necessary background knowledge is presented in the appendices. Basic knowledge of probability theory and stochastic calculus is presented in Appendix A. In Appendix B some semi-analytical methods for SPDEs are presented. In Appendix C an introduction to Gauss quadrature is provided. In Appendix D, all the conclusions which are needed for proofs are presented, and in Appendix E a method to compute the convergence rate empirically is included. In addition, the authors provide a thorough review of the topics, both theoretical and computational exercises in the book with practical discussion of the effectiveness of

the methods. Supporting Matlab files are made available to help illustrate some of the concepts further. Bibliographic notes are included at the end of each chapter. This book serves as a reference for graduate students and researchers in the mathematical sciences who would like to understand state-of-the-art numerical methods for stochastic partial differential equations with white noise.

princeton university math department: *Proceedings of the ... Conference on the Design of Experiments*, 1974

princeton university math department: *Imagine Math 2* Michele Emmer, 2013-10-04 Imagine mathematics, imagine with the help of mathematics, imagine new worlds, new geometries, new forms. The new volume in the series "Imagine Math" is intended to contribute to grasping how much that is interesting and new is happening in the relationships between mathematics, imagination and culture. The present book begins with the connections between mathematics, numbers, poetry and music, with the latest opera by Italian composer Claudio Ambrosini. Literature and narrative also play an important role here. There is cinema too, with the "erotic" mathematics films by Edward Frenkel, and the new short "Arithmétique" by Munari and Rovazzani. The section on applications of mathematics features a study of ants, as well as the refined forms and surfaces generated by algorithms used in the performances by Adrien Mondot and Claire Bardainne. Last but not least, in honour of the hundredth anniversary of his birth, a mathematical, literary and theatrical homage to Alan Turing, one of the outstanding figures of the twentieth century.

princeton university math department: *On a Fredholm Equation in Diffraction Theory* Irving J. Epstein, 1956

princeton university math department: *Advances in Gabor Analysis* Hans G. Feichtinger, Thomas Strohmer, 2012-12-06 The Applied and Numerical Harmonic Analysis (ANHA) book series aims to provide the engineering, mathematical, and scientific communities with significant developments in harmonic analysis, ranging from abstract harmonic analysis to basic applications. The title of the series reflects the importance of applications and numerical implementation, but richness and relevance of applications and implementation depend fundamentally on the structure and depth of theoretical underpinnings. Thus, from our point of view, the interleaving of theory and applications and their creative symbiotic evolution is axiomatic. Harmonic analysis is a wellspring of ideas and applicability that has flourished, developed, and deepened over time within many disciplines and by means of creative cross-fertilization with diverse areas. The intricate and fundamental relationship between harmonic analysis and fields such as signal processing, partial differential equations (PDEs), and image processing is reflected in our state of the art ANHA series. Our vision of modern harmonic analysis includes mathematical areas such as wavelet theory, Banach algebras, classical Fourier analysis, time frequency analysis, and fractal geometry, as well as the diverse topics that impinge on them.

princeton university math department: *Poincaré's Prize* George G. Szpiro, 2008-07-29 The amazing story of one of the greatest math problems of all time and the reclusive genius who solved it. In the tradition of Fermat's Enigma and Prime Obsession, George Szpiro brings to life the giants of mathematics who struggled to prove a theorem for a century and the mysterious man from St. Petersburg, Grigory Perelman, who finally accomplished the impossible. In 1904 Henri Poincaré developed the Poincaré Conjecture, an attempt to understand higher-dimensional space and possibly the shape of the universe. The problem was he couldn't prove it. A century later it was named a Millennium Prize problem, one of the seven hardest problems we can imagine. Now this holy grail of mathematics has been found. Accessibly interweaving history and math, Szpiro captures the passion, frustration, and excitement of the hunt, and provides a fascinating portrait of a contemporary noble-genius.

princeton university math department: *Princeton Alumni Weekly*, 1950

princeton university math department: *Coping with Complexity: Model Reduction and Data Analysis* Alexander N. Gorban, Dirk Roose, 2010-10-21 This volume contains the extended version of selected talks given at the international research workshop Coping with Complexity: Model Reduction and Data Analysis, Ambleside, UK, August 31 - September 4, 2009. The book is

deliberately broad in scope and aims at promoting new ideas and methodological perspectives. The topics of the chapters range from theoretical analysis of complex and multiscale mathematical models to applications in e.g., fluid dynamics and chemical kinetics.

princeton university math department: *Selected Works of Oded Schramm* Itai Benjamini, Olle Häggström, 2011-08-12 This volume is dedicated to the memory of the late Oded Schramm (1961-2008), distinguished mathematician. Throughout his career, Schramm made profound and beautiful contributions to mathematics that will have a lasting influence. In these two volumes, Editors Itai Benjamini and Olle Häggström have collected some of his papers, supplemented with three survey papers by Steffen Rohde, Häggström and Cristophe Garban that further elucidate his work. The papers within are a representative collection that shows the breadth, depth, enthusiasm and clarity of his work, with sections on Geometry, Noise Sensitivity, Random Walks and Graph Limits, Percolation, and finally Schramm-Loewner Evolution. An introduction by the Editors and a comprehensive bibliography of Schramm's publications complete the volume. The book will be of especial interest to researchers in probability and geometry, and in the history of these subjects.

princeton university math department: *Count Me In* Della Dumbaugh, Deanna Haunsperger, 2022-02-24 This groundbreaking work explores the powerful role of communities in mathematics. It introduces readers to twenty-six different mathematical communities and addresses important questions about how they form, how they thrive, and how they advance individuals and the group as a whole. The chapters celebrate how diversity and sameness bind colleagues together, showing how geography, gender, or graph theory can create spaces for colleagues to establish connections in the discipline. They celebrate outcomes measured by mathematical results and by increased interest in studying mathematics. They highlight the value of relationships with peers and colleagues at various stages of their careers. Together, these stories offer a guide—rather than a template—for building and sustaining a mathematical community. They call attention to critical strategies of rotating leadership and regular assessment and evaluation of goals and programs, and promote an ongoing awareness of the responsibilities of life that impinge on mathematical creativity and contributions. Whether you are giving thought to starting a group, joining one already in existence, or encouraging a colleague to participate in the broader mathematical community, this book will meet you where you are—and move you beyond. It contains a plethora of ideas to foster a sense of belonging in the exciting discipline of mathematics.

princeton university math department: *Experiencing Mathematics* Reuben Hersh, 2013-12-24 Part IV. About the author -- An amusing elementary example -- Annotated research bibliography -- Curriculum vitae -- List of articles -- Index -- Back Cover

princeton university math department: *Global Analysis of Dynamical Systems* H.W Broer, B Krauskopf, Gert Vegter, 2001-06-18 Contributed by close colleagues, friends, and former students of Floris Takens, *Global Analysis of Dynamical Systems* is a *liber amicorum* dedicated to Takens for his 60th birthday. The first chapter is a reproduction of Takens's 1974 paper *Forced oscillators and bifurcations* that was previously available only as a preprint of the University of Utrecht. Among other important results, it contains the unfolding of what is now known as the Bogdanov-Takens bifurcation. The remaining chapters cover topics as diverse as bifurcation theory, Hamiltonian mechanics, homoclinic bifurcations, routes to chaos, ergodic theory, renormalization theory, and time series analysis. In its entirety, the book bears witness to the influence of Takens on the modern theory of dynamical systems and its applications. This book is a must-read for anyone interested in this active and exciting field.

princeton university math department: *Computational Aspects of Discrete Subgroups of Lie Groups* Alla Detinko, Michael Kapovich, Alex Kontorovich, Peter Sarnak, Richard Schwartz, 2023-03-10 This volume contains the proceedings of the virtual workshop on *Computational Aspects of Discrete Subgroups of Lie Groups*, held from June 14 to June 18, 2021, and hosted by the Institute for Computational and Experimental Research in Mathematics (ICERM), Providence, Rhode Island. The major theme deals with a novel domain of computational algebra: the design, implementation, and application of algorithms based on matrix representation of groups and their geometric

properties. It is centered on computing with discrete subgroups of Lie groups, which impacts many different areas of mathematics such as algebra, geometry, topology, and number theory. The workshop aimed to synergize independent strands in the area of computing with discrete subgroups of Lie groups, to facilitate solution of theoretical problems by means of recent advances in computational algebra.

princeton university math department: Low-dimensional Topology and Kleinian Groups D. B. A. Epstein, 1986 Volume 2 is divided into three parts: the first 'Surfaces' contains an article by Thurston on earthquakes and by Penner on traintracks. The second part is entitled 'Knots and 3-Manifolds' and the final part 'Kleinian Groups'.

princeton university math department: Xivth International Congress On Mathematical Physics Jean-claude Zambrini, 2006-03-07 In 2003 the XIV International Congress on Mathematical Physics (ICMP) was held in Lisbon with more than 500 participants. Twelve plenary talks were given in various fields of Mathematical Physics: E Carlen «On the relation between the Master equation and the Boltzmann Equation in Kinetic Theory»; A Chenciner «Symmetries and “simple” solutions of the classical n-body problem»; M J Esteban «Relativistic models in atomic and molecular physics»; K Fredenhagen «Locally covariant quantum field theory»; K Gawedzki «Simple models of turbulent transport»; I Krichever «Algebraic versus Liouville integrability of the soliton systems»; R V Moody «Long-range order and diffraction in mathematical quasicrystals»; S Smirnov «Critical percolation and conformal invariance»; J P Solovej «The energy of charged matter»; V Schomerus «Strings through the microscope»; C Villani «Entropy production and convergence to equilibrium for the Boltzmann equation»; D Voiculescu «Aspects of free probability». The book collects as well carefully selected invited Session Talks in: Dynamical Systems, Integrable Systems and Random Matrix Theory, Condensed Matter Physics, Equilibrium Statistical Mechanics, Quantum Field Theory, Operator Algebras and Quantum Information, String and M Theory, Fluid Dynamics and Nonlinear PDE, General Relativity, Nonequilibrium Statistical Mechanics, Quantum Mechanics and Spectral Theory, Path Integrals and Stochastic Analysis.

princeton university math department: **Probability and Statistical Models with Applications** CH. A. Charalambides, M.V. Koutras, N. Balakrishnan, 2000-09-21 This monograph of carefully collected articles reviews recent developments in theoretical and applied statistical science, highlights current noteworthy results and illustrates their applications; and points out possible new directions to pursue. With its enlightening account of statistical discoveries and its numerous figures and tables, Probabili

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