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Number Theory

New York Seminar 1991-1995

Number Theory New York Seminar 1991 1995

Shigeru Kanemitsu,Takashi Aoki,Jianya Liu

Number Theory New York Seminar 1991 1995:

Number Theory David V Chudnovsky,Gregory V Chudnovsky,Melvyn B Nathanson,1996-09-19 **Number Theory** David V. Chudnovsky,Gregory V. Chudnovsky,Melvyn B. Nathanson,1996-09-19 This volume is dedicated to Harvey Cohn Distinguished Professor Emeritus of Mathematics at City College CUNY Harvey was one of the organizers of the New York Number Theory Seminar and was deeply involved in all aspects of the Seminar from its first meeting in January 1982 until his retirement in December 1995 We wish him good health and continued hapiness and success in mathematics The papers in this volume are revised and expanded versions of lectures delivered in the New York Number Theory Seminar The Seminar meets weekly at the Graduate School and University Center of the City University of New York CUNY In addition some of the papers in this book were presented at a conference on Combinatorial Number Theory that the New York Number Theory Seminar organized at Lehman College CUNY Here is a short description of the papers in this volume The paper of R T Bumby focuses on elementary fast algorithms in sums of two and four squares The actual talk had been accompanied by dazzling computer demonstrations The detailed review of H Cohn describes the construction of modular equations as the basis of studies of modular forms in the one dimensional and Hilbert cases **Combinatorial Number Theory and Additive Group Theory** Alfred Geroldinger,Imre Ruzsa,2009-04-15 Additive combinatorics is a relatively recent term coined to comprehend the developments of the more classical additive number theory mainly focussed on problems related to the addition of integers Some classical problems like the Waring problem on the sum of k th powers or the Goldbach conjecture are genuine examples of the original questions addressed in the area One of the features of contemporary additive combinatorics is the interplay of a great variety of mathematical techniques including combinatorics harmonic analysis convex geometry graph theory probability theory algebraic geometry or ergodic theory This book gathers the contributions of many of the leading

researchers in the area and is divided into three parts The two first parts correspond to the material of the main courses delivered Additive combinatorics and non unique factorizations by Alfred Geroldinger and Sumsets and structure by Imre Z Ruzsa The third part collects the notes of most of the seminars which accompanied the main courses and which cover a reasonably large part of the methods techniques and problems of contemporary additive combinatorics **Combinatorial Number Theory** Bruce Landman,Melvyn B. Nathanson,Jaroslav Nesetril,Richard J. Nowakowski,Carl Pomerance,2011-12-22 This carefully edited volume contains selected refereed papers based on lectures presented by many distinguished speakers at the Integers Conference 2005 an international conference in combinatorial number theory The conference was held in celebration of the 70th birthday of Ronald Graham a leader in several fields of mathematics **Number Theory for the Millennium III** M.A. Bennett,Bruce Berndt,N. Boston,A.J. Hildebrand,H.G. Diamond,W. Philipp,2023-03-17 Building on the tradition of an outstanding series of conferences at the University of Illinois at Urbana Champaign the organizers attracted an international group of scholars to open the new Millennium with a conference that reviewed the current state of number theory research and pointed to future directions in the field The conference was the largest general number theory conference in recent history featuring a total of 159 talks with the plenary lectures given by George Andrews Jean Bourgain Kevin Ford Ron Graham Andrew Granville Roger Heath Brown Christopher Hooley Winnie Li Kumar Murty Mel Nathanson Ken Ono Carl Pomerance Bjorn Poonen Wolfgang Schmidt Chris Skinner K Soundararajan Robert Tijdeman Robert Vaughan and Hugh Williams The Proceedings Volumes of the conference review some of the major number theory achievements of this century and to chart some of the directions in which the subject will be heading during the new century These volumes will serve as a useful reference to researchers in the area and an introduction to topics of current interest in number theory for a general audience in mathematics **Combinatorial and Additive Number Theory V** Melvyn B. Nathanson,2023-01-01 This proceedings volume the fifth in a series from the Combinatorial and Additive Number Theory CANT conferences is based on talks from the 19th annual workshop held online due to the COVID 19 pandemic Organized every year since 2003 by the New York Number Theory Seminar at the CUNY Graduate Center the workshops survey state of the art open problems in combinatorial and additive number theory and related parts of mathematics The CANT 2021 meeting featured over a hundred speakers from North and South America Europe Asia Australia and New Zealand and was the largest CANT conference in terms of the number of both lectures and participants These proceedings contain peer reviewed and edited papers on current topics in number theory Topics featured in this volume include sumsets minimal bases Sidon sets analytic and prime number theory combinatorial and discrete geometry numerical semigroups and a survey of expansion divisibility and parity This selection of articles will be of relevance to both researchers and graduate students interested in current progress in number theory **Arithmetic of Finite Fields** Lilya Budaghyan,Francisco Rodríguez-Henríquez,2018-12-29 This book constitutes the thoroughly refereed post workshop proceedings of the 7th International Workshop on the

Arithmetic of Finite Field WAIFI 2018 held in Bergen Norway in June 2018 The 14 revised full papers and six invited talks presented were carefully reviewed and selected from 26 submissions The papers are organized in topical sections on invited talks elliptic curves hardware implementations arithmetic and applications of finite fields and cryptography __Algorithmic Number Theory__ Henri Cohen,1996-08-07 This book constitutes the refereed post conference proceedings of the Second International Algorithmic Number Theory Symposium ANTS II held in Talence France in May 1996 The 35 revised full papers included in the book were selected from a variety of submissions They cover a broad spectrum of topics and report state of the art research results in computational number theory and complexity theory Among the issues addressed are number fields computation Abelian varieties factoring algorithms finite fields elliptic curves algorithm complexity lattice theory and coding **Additive Combinatorics** Terence Tao,Van H. Vu,2006-09-14 Additive combinatorics is the theory of counting additive structures in sets This theory has seen exciting developments and dramatic changes in direction in recent years thanks to its connections with areas such as number theory ergodic theory and graph theory This graduate level 2006 text will allow students and researchers easy entry into this fascinating field Here the authors bring together in a self contained and systematic manner the many different tools and ideas that are used in the modern theory presenting them in an accessible coherent and intuitively clear manner and providing immediate applications to problems in additive combinatorics The power of these tools is well demonstrated in the presentation of recent advances such as Szemer di s theorem on arithmetic progressions the Kakeya conjecture and Erdos distance problems and the developing field of sum product estimates The text is supplemented by a large number of exercises and new results **Number Theory for the Millennium III** Michael A. Bennett,2002-09-05 Building on the tradition of an outstanding series of conferences at the University of Illinois at Urbana Champaign the organizers attracted an international group of scholars to open the new Millennium with a conference that reviewed the current state of number theory research and pointed to future directions in the field The conference was the largest general number theory conference in recent history featuring a total of 159 talks with the plenary lectures given by George Andrews Jean Bourgain Kevin Ford Ron Graham Andrew Granville Roger Heath Brown Christopher Hooley Winnie Li Kumar Murty Mel Nathanson Ken Ono Carl Pomerance Bjorn Poonen Wolfgang Schmidt Chris Skinner K Soundararajan Robert Tijdeman Robert Vaughan and Hugh Williams The Proceedings Volumes of the conference review some of the major number theory achievements of this century and to chart some of the directions in which the subject will be heading during the new century These volumes will serve as a useful reference to researchers in the area and an introduction to topics of current interest in number theory for a general audience in mathematics **Number Theory: Dreaming In Dreams - Proceedings Of The 5th China-japan Seminar** Shigeru Kanemitsu,Takashi Aoki,Jianya Liu,2009-11-26 This volume aims at collecting survey papers which give broad and enlightening perspectives of various aspects of number theory Kitaoka s paper is a continuation of his earlier paper published in the last proceedings and

pushes the research forward Browning s paper introduces a new direction of research on analytic number theory quantitative theory of some surfaces and Bruedern et al s paper details state of the art affairs of additive number theory There are two papers on modular forms Kohnen s paper describes generalized modular forms GMF which has some applications in conformal field theory while Liu s paper is very useful for readers who want to have a quick introduction to Maass forms and some analytic number theoretic problems related to them Matsumoto et al s paper gives a very thorough survey on functional relations of root system zeta functions Hoshi Miyake s paper is a continuation of Miyake s long and fruitful research on generic polynomials and gives rise to related Diophantine problems and Jia s paper surveys some dynamical aspects of a special arithmetic function connected with the distribution of prime numbers There are two papers of collections of problems by Shparlinski on exponential and character sums and Schinzel on polynomials which will serve as an aid for finding suitable research problems Yamamura s paper is a complete bibliography on determinant expressions for a certain class number and will be useful to researchers Thus the book gives a good balance of classical and modern aspects in number theory and will be useful to researchers including enthusiastic graduate students *Finite Fields: Theory and Computation* Igor Shparlinski,2013-03-09 This book is mainly devoted to some computational and algorithmic problems in finite fields such as for example polynomial factorization finding irreducible and primitive polynomials the distribution of these primitive polynomials and of primitive points on elliptic curves constructing bases of various types and new applications of finite fields to other areas of mathematics For completeness we in clude two special chapters on some recent advances and applications of the theory of congruences optimal coefficients congruential pseudo random number gener ators modular arithmetic etc and computational number theory primality testing factoring integers computation in algebraic number theory etc The problems considered here have many applications in Computer Science Cod ing Theory Cryptography Numerical Methods and so on There are a few books devoted to more general questions but the results contained in this book have not till now been collected under one cover In the present work the author has attempted to point out new links among different areas of the theory of finite fields It contains many very important results which previously could be found only in widely scattered and hardly available conference proceedings and journals In particular we extensively review results which originally appeared only in Russian and are not well known to mathematicians outside the former USSR **Mathematical Constants** Steven R. Finch,2003-08-18 Steven Finch provides 136 essays each devoted to a mathematical constant or a class of constants from the well known to the highly exotic This book is helpful both to readers seeking information about a specific constant and to readers who desire a panoramic view of all constants coming from a particular field for example combinatorial enumeration or geometric optimization Unsolved problems appear virtually everywhere as well This work represents an outstanding scholarly attempt to bring together all significant mathematical constants in one place **Arithmetic Fundamental Groups and Noncommutative Algebra** Michael D. Fried,Yasutaka Ihara,2002 The

arithmetic and geometry of moduli spaces and their fundamental groups are a very active research area This book offers a complete overview of developments made over the last decade The papers in this volume examine the geometry of moduli spaces of curves with a function on them The main players in Part 1 are the absolute Galois group G mathbb Q of the algebraic numbers and its close relatives By analyzing how G mathbb Q acts on fundamental groups defined by Hurwitz moduli problems the authors achieve a grand generalization of Serre s program from the 1960s Papers in Part 2 apply theta functions and configuration spaces to the study of fundamental groups over positive characteristic fields In this section several authors use Grothendieck s famous lifting results to give extensions to wildly ramified covers Properties of the fundamental groups have brought collaborations between geometers and group theorists Several Part 3 papers investigate new versions of the genus 0 problem In particular this includes results severely limiting possible monodromy groups of sphere covers Finally Part 4 papers treat Deligne s theory of Tannakian categories and arithmetic versions of the Kodaira Spencer map This volume is geared toward graduate students and research mathematicians interested in arithmetic algebraic geometry   STACS 95 Ernst W. Mayr,Claude Puech,1995-02-15 This book presents the proceedings of the 12th Annual Symposium on Theoretical Aspects of Computer Science STACS 95 held in Munich Germany in March 1995 Besides three invited talks the book contains revised versions of 53 research papers selected from a total of 180 submissions The contributions address all current aspects of theoretical computer science they are organized in sections on complexity theory automata theory algorithms logic theory of parallel computing communication theory graph theory and databases and computational geometry   **Number Theory** Canadian Number Theory Association. Conference,1999-01-01 This book contains papers presented at the fifth Canadian Number Theory Association CNTA conference held at Carleton University Ottawa ON The invited speakers focused on arithmetic algebraic geometry and elliptic curves diophantine problems analytic number theory and algebraic and computational number theory The contributed talks represented a wide variety of areas in number theory David Boyd gave an hour long talk on Mahler s Measure and Elliptic Curves This lecture was open to the public and attracted a large audience from outside the conference   *Advances in Cryptology — ASIACRYPT'98* Kazuo Ohta,Dingyi Pei,2003-06-29 ASIACRYPT 98 the international conference covering all aspects of theory and application of cryptology and information security is being held at Beijing Friendship Hotel from October 18 to 22 This is the fourth of the Asiacrypt conferences ASIACRYPT 98 is sponsored by the State Key Laboratory of Information Security SKLOIS University of Science and Technology of China USTC and the Asiacrypt Steering Committee ASC in cooperation with the International Association for Cryptology Research IACR The 16 member Program Committee organized the scientific program and considered 118 submissions Of these 32 were accepted for presentation The authors affiliations of the 118 submissions and the 32 accepted papers range over 18 and 13 countries or regions respectively The submitted version of each paper was sent to all members of the Program Committee and was extensively examined by at least three committee members and or outside

experts The review process was rigorously blinded and the anonymity of each submission are maintained until the selection was completed We followed the traditional policy that each member of the Program Committee could be an author of at most one accepted paper These proceedings contain the revised versions of the 32 contributed talks as well as a short note written by one invited speaker Comments from the Program Committee were taken into account in the revisions However the authors not the committee bear full responsibility for the contents of their papers **Arithmetic, Geometry, Cryptography and Coding Theory** Gilles Lachaud,Christophe Ritzenthaler,Michael A. Tsfasman,2009-06-11 This volume contains the proceedings of the 11th conference on mathrm AGC 2 T held in Marseille France in November 2007 There are 12 original research articles covering asymptotic properties of global fields arithmetic properties of curves and higher dimensional varieties and applications to codes and cryptography This volume also contains a survey article on applications of finite fields by J P Serre mathrm AGC 2 T conferences take place in Marseille France every 2 years These international conferences have been a major event in the area of applied arithmetic geometry for more than 20 years Algorithmic Algebra and Number Theory B.Heinrich Matzat,Gert-Martin Greuel,Gerhard Hiss,2012-12-06 This book contains 22 lectures presented at the final conference of the Ger man research program Schwerpunktprogramm Algorithmic Number The ory and Algebra 1991 1997 sponsored by the Deutsche Forschungsgemein schaft The purpose of this research program and of the meeting was to bring together developers of computer algebra software and researchers using com putational methods to gain insight into experimental problems and theoret ical questions in algebra and number theory The book gives an overview on algorithmic methods and on results ob tained during this period This includes survey articles on the main research projects within the program algorithmic number theory emphasizing class field theory constructive Galois theory computational aspects of modular forms and of Drinfeld modules computational algebraic geometry including real quantifier elimination and real algebraic geometry and invariant theory of finite groups computational aspects of presentations and representations of groups especially finite groups of Lie type and their Heeke algebras and of the isomorphism problem in group theory Some of the articles illustrate the current state of computer algebra sys tems and program packages developed with support by the research pro gram such as KANT and LiDIA for algebraic number theory SINGULAR RED LOG and INVAR for commutative algebra and invariant theory respec tively and GAP SYSYPHOS and CHEVIE for group theory and representation theory

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