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Melvyn B. Nathanson · Editors

Number Theory

New York Seminar 2003



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Number Theory New York Seminar 2003

Ze-Li Dou, Qiao Zhang



Number Theory New York Seminar 2003:

Number Theory David Chudnovsky, Gregory Chudnovsky, Melvyn B. Nathanson, 2012-10-21 This volume of new research papers marks the 20th anniversary of the New York Number Theory Seminar NYNTS Since 1982 NYNTS has presented a range of research in number theory and related fields of mathematics from physics to geometry to combinatorics and computer science The speakers have included Field medalists as well as promising lesser known mathematicians whose theorems are significant The papers presented here are all previously unpublished **Number Theory** David

Chudnovsky, 2004 This volume marks the 20th anniversary of the New York Number Theory Seminar NYNTS Beginning in 1982 the NYNTS has tried to present a broad spectrum of research in number theory and related fields of mathematics from physics to geometry to combinatorics and computer science The list of seminar speakers includes not only Fields Medallists and other established researchers but also many other younger and less well known mathematicians whose theorems are significant and whose work may become the next big thing in number theory **An Invitation to Modern Number Theory**

Steven J. Miller, Ramin Takloo-Bighash, 2020-07-21 In a manner accessible to beginning undergraduates An Invitation to Modern Number Theory introduces many of the central problems conjectures results and techniques of the field such as the Riemann Hypothesis Roth's Theorem the Circle Method and Random Matrix Theory Showing how experiments are used to test conjectures and prove theorems the book allows students to do original work on such problems often using little more than calculus though there are numerous remarks for those with deeper backgrounds It shows students what number theory theorems are used for and what led to them and suggests problems for further research Steven Miller and Ramin Takloo-Bighash introduce the problems and the computational skills required to numerically investigate them providing background material from probability to statistics to Fourier analysis whenever necessary They guide students through a variety of problems ranging from basic number theory cryptography and Goldbach's Problem to the algebraic structures of numbers and continued fractions showing connections between these subjects and encouraging students to study them further In addition this is the first undergraduate book to explore Random Matrix Theory which has recently become a powerful tool for predicting answers in number theory Providing exercises references to the background literature and Web links to previous student research projects An Invitation to Modern Number Theory can be used to teach a research seminar or a lecture class

Advanced Analytic Number Theory: L-Functions Carlos J. Moreno, 2005 Since the pioneering work of Euler Dirichlet and Riemann the analytic properties of L functions have been used to study the distribution of prime numbers With the advent of the Langlands Program L functions have assumed a greater role in the study of the interplay between Diophantine questions about primes and representation theoretic properties of Galois representations This book provides a complete introduction to the most significant class of L functions the Artin Hecke L functions associated to finite dimensional representations of Weil groups and to automorphic L functions of principal type on the general linear group In addition to

establishing functional equations growth estimates and non vanishing theorems a thorough presentation of the explicit formulas of Riemann type in the context of Artin Hecke and automorphic L functions is also given The survey is aimed at mathematicians and graduate students who want to learn about the modern analytic theory of L functions and their applications in number theory and in the theory of automorphic representations The requirements for a profitable study of this monograph are a knowledge of basic number theory and the rudiments of abstract harmonic analysis on locally compact abelian groups

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

Combinatorial and Additive Number Theory II Melvyn B. Nathanson, 2018-01-13 Based on talks from the 2015 and 2016 Combinatorial and Additive Number Theory CANT workshops at the City University of New York these proceedings offer 19 peer reviewed and edited papers on current topics in number theory Held every year since 2003 the workshop series surveys state of the art open problems in combinatorial and additive number theory and related parts of mathematics Sumsets partitions convex polytopes and discrete geometry Ramsey theory primality testing and cryptography are among the topics featured in this volume Each contribution is dedicated to a specific topic that reflects the latest results by experts in the field Researchers and graduate students interested in the current progress in number theory will find this selection of articles relevant and compelling

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

Six Short Chapters on Automorphic Forms and L-functions Ze-Li Dou, Qiao Zhang, 2012-12-15 Six Short Chapters on Automorphic Forms and L functions treats the period conjectures of Shimura and the moment conjecture These conjectures are of central importance in contemporary number theory but have hitherto remained little discussed in expository form The book is divided into six short and relatively independent chapters each with its own theme and presents a motivated and lively account of the main topics providing professionals an overall view of the conjectures and providing researchers intending to specialize in the area a guide to the relevant literature Ze Li Dou and Qiao Zhang are both associate professors of Mathematics at Texas Christian University USA

Why Prove it Again? John W. Dawson, Jr., 2015-07-15 This monograph considers several well known mathematical theorems and asks the question Why prove it again while examining alternative proofs It explores the different rationales mathematicians may have for pursuing and presenting new proofs of previously established results as well as how they judge whether two proofs of a given result are different While a number of books have examined alternative proofs of individual theorems this is the first that presents comparative case studies of other methods for a variety of different theorems The author begins by laying out the criteria for distinguishing among proofs and enumerates reasons why new proofs have for so long played a prominent role in mathematical practice He then outlines various purposes that alternative proofs may serve Each chapter that follows provides a detailed case study of alternative proofs for particular theorems including the Pythagorean Theorem the Fundamental Theorem of Arithmetic Desargues Theorem the Prime Number Theorem and the proof of the irreducibility of cyclotomic polynomials Why Prove It Again will appeal to a broad range of readers including historians and philosophers of mathematics students and practicing mathematicians Additionally teachers will find it to be a useful source of alternative methods of presenting material to their students

Mathematical Knowledge and the Interplay of Practices José Ferreirós, 2015-12-22 This book presents a new approach to the epistemology of mathematics by viewing mathematics as a human activity whose knowledge is intimately linked with practice Charting an exciting new direction in the philosophy of mathematics Jos Ferreir s uses the crucial idea of a continuum to provide an account of the development of mathematical knowledge that reflects the actual experience of doing math and makes sense of the perceived objectivity of mathematical results Describing a historically

oriented agent based philosophy of mathematics Ferreir s shows how the mathematical tradition evolved from Euclidean geometry to the real numbers and set theoretic structures He argues for the need to take into account a whole web of mathematical and other practices that are learned and linked by agents and whose interplay acts as a constraint Ferreir s demonstrates how advanced mathematics far from being a priori is based on hypotheses in contrast to elementary math which has strong cognitive and practical roots and therefore enjoys certainty Offering a wealth of philosophical and historical insights Mathematical Knowledge and the Interplay of Practices challenges us to rethink some of our most basic assumptions about mathematics its objectivity and its relationship to culture and science

Combinatorial and Additive Number Theory III Melvyn B. Nathanson, 2019-12-10 Based on talks from the 2017 and 2018 Combinatorial and Additive Number Theory CANT workshops at the City University of New York these proceedings offer 17 peer reviewed and edited papers on current topics in number theory Held every year since 2003 the workshop series surveys state of the art open problems in combinatorial and additive number theory and related parts of mathematics Topics featured in this volume include sumsets partitions convex polytopes and discrete geometry Ramsey theory commutative algebra and discrete geometry and applications of logic and nonstandard analysis to number theory Each contribution is dedicated to a specific topic that reflects the latest results by experts in the field This selection of articles will be of relevance to both researchers and graduate students interested in current progress in number theory

Proceedings of the Sixth International Conference on Number Theory and Smarandache Notions Wenpeng Zhang, 2010 This Book is devoted to the proceedings of the Sixth International Conference on Number Theory and Smarandache Notions held in Tianshui during April 24-25, 2010 The organizers were Prof Zhang Wenpeng and Prof Wangsheng He from Tianshui Normal University The conference was supported by Tianshui Normal University and there were more than 100 participants

Arithmetic Tales Olivier Bordellès, 2020-11-26 This textbook covers a wide array of topics in analytic and multiplicative number theory suitable for graduate level courses Extensively revised and extended this Advanced Edition takes a deeper dive into the subject with the elementary topics of the previous edition making way for a fuller treatment of more advanced topics The core themes of the distribution of prime numbers arithmetic functions lattice points exponential sums and number fields now contain many more details and additional topics In addition to covering a range of classical and standard results some recent work on a variety of topics is discussed in the book including arithmetic functions of several variables bounded gaps between prime numbers la Yitang Zhang Mordell s method for exponential sums over finite fields the resonance method for the Riemann zeta function the Hooley divisor function and many others Throughout the book the emphasis is on explicit results Assuming only familiarity with elementary number theory and analysis at an undergraduate level this textbook provides an accessible gateway to a rich and active area of number theory With an abundance of new topics and 50% more exercises all with solutions it is now an even better guide for independent study

Combinatorial and Additive Number Theory IV Melvyn B.

Nathanson,2021-08-12 This is the fourth in a series of proceedings of the Combinatorial and Additive Number Theory CANT conferences based on talks from the 2019 and 2020 workshops at the City University of New York The latter was held online due to the COVID 19 pandemic and featured speakers from North and South America Europe and Asia The 2020 Zoom conference was the largest CANT conference in terms of the number of both lectures and participants These proceedings contain 25 peer reviewed and edited papers on current topics in number theory Held every year since 2003 at the CUNY Graduate Center the workshop surveys state of the art open problems in combinatorial and additive number theory and related parts of mathematics Topics featured in this volume include sumsets zero sum sequences minimal complements analytic and prime number theory Hausdorff dimension combinatorial and discrete geometry and Ramsey theory This selection of articles will be of relevance to both researchers and graduate students interested in current progress in number theory

Combinatorial and Additive Number Theory VI Melvyn B. Nathanson,2025-02-21 This proceedings volume the sixth in a series from the Combinatorial and Additive Number Theory CANT conferences is based on talks from the 20th and 21st annual workshops held in New York in 2022 virtual and 2023 hybrid respectively 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 In this volume the reader will find peer reviewed and edited papers on current topics in number theory This selection of articles will be of relevance to both researchers and graduate students interested in current progress in number theory

Axiomatic Thinking I Fernando Ferreira,Reinhard Kahle,Giovanni Sommaruga,2022-10-13 In this two volume compilation of articles leading researchers reevaluate the success of Hilbert s axiomatic method which not only laid the foundations for our understanding of modern mathematics but also found applications in physics computer science and elsewhere The title takes its name from David Hilbert s seminal talk *Axiomatisches Denken* given at a meeting of the Swiss Mathematical Society in Zurich in 1917 This marked the beginning of Hilbert s return to his foundational studies which ultimately resulted in the establishment of proof theory as a new branch in the emerging field of mathematical logic Hilbert also used the opportunity to bring Paul Bernays back to G ttingen as his main collaborator in foundational studies in the years to come The contributions are addressed to mathematical and philosophical logicians but also to philosophers of science as well as physicists and computer scientists with an interest in foundations Chapter 8 is available open access under a Creative Commons Attribution 4 0 International License via link [springer.com](https://www.springer.com)

Open Problems in Mathematics John Forbes Nash, Jr.,Michael Th. Rassias,2016-07-05 The goal in putting together this unique compilation was to present the current status of the solutions to some of the most essential open problems in pure and applied mathematics Emphasis is also given to problems in interdisciplinary research for which mathematics plays a key role This volume comprises highly selected contributions by some of the most eminent mathematicians in the international mathematical community on longstanding problems in very active domains of

mathematical research A joint preface by the two volume editors is followed by a personal farewell to John F Nash Jr written by Michael Th Rassias An introduction by Mikhail Gromov highlights some of Nash s legendary mathematical achievements The treatment in this book includes open problems in the following fields algebraic geometry number theory analysis discrete mathematics PDEs differential geometry topology K theory game theory fluid mechanics dynamical systems and ergodic theory cryptography theoretical computer science and more Extensive discussions surrounding the progress made for each problem are designed to reach a wide community of readers from graduate students and established research mathematicians to physicists computer scientists economists and research scientists who are looking to develop essential and modern new methods and theories to solve a variety of open problems **Ramanujan's Lost Notebook** George E.

Andrews,Bruce C. Berndt,2009-04-05 In the spring of 1976 George Andrews of Pennsylvania State University visited the library at Trinity College Cambridge to examine the papers of the late G N Watson Among these papers Andrews discovered a sheaf of 138 pages in the handwriting of Srinivasa Ramanujan This manuscript was soon designated Ramanujan s lost notebook The lost notebook contains considerable material on mock theta functions and so undoubtedly emanates from the last year of Ramanujan s life It should be emphasized that the material on mock theta functions is perhaps Ramanujan s deepest work *Number Theory* Henri Cohen,2007-05-23 The central theme of this book is the solution of Diophantine

equations i e equations or systems of polynomial equations which must be solved in integers rational numbers or more generally in algebraic numbers This theme in particular is the central motivation for the modern theory of arithmetic algebraic geometry In this text this is considered through three of its most basic aspects The book contains more than 350 exercises and the text is largely self contained Much more sophisticated techniques have been brought to bear on the subject of Diophantine equations and for this reason the author has included five appendices on these techniques **An**

Introduction to Number Theory G. Everest,Thomas Ward,2007-05-21 Includes up to date material on recent developments and topics of significant interest such as elliptic functions and the new primality test Selects material from both the algebraic and analytic disciplines presenting several different proofs of a single result to illustrate the differing viewpoints and give good insight

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