

David Chudnovsky · Gregory Chudnovsky
Melvyn B. Nathanson · Editors

Number Theory

New York Seminar 2003



Springer

Number Theory New York Seminar 2003

David Chudnovsky



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as promising lesser known mathematicians whose theorems are significant The papers presented here are all previously unpublished *Number Theory* David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

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

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

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

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

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

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

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