NUMBER THEORY

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Algebraic Groups and Number Theory: Volume 1 Vladimir Platonov,Andrei Rapinchuk,Igor Rapinchuk,2023-09-07 The first edition of this book provided the first systematic exposition of the arithmetic theory of algebraic groups This revised second edition now published in two volumes retains the same goals while incorporating corrections and improvements as well as new material covering more recent developments Volume I begins with chapters covering background material on number theory algebraic groups and cohomology both abelian and non abelian and then turns to algebraic groups over locally compact fields The remaining two chapters provide a detailed treatment of arithmetic subgroups and reduction theory in both the real and adelic settings Volume I includes new material on groups with bounded generation and abstract arithmetic groups With minimal prerequisites and complete proofs given whenever possible this book is suitable for self study for graduate students wishing to learn the subject as well as a reference for researchers in number theory algebraic geometry and related areas **Applied Algebra and Number Theory** Gerhard Larcher,Friedrich Pillichshammer,Arne Winterhof,Chaoping Xing,2014-12-11 Harald Niederreiter s pioneering research in the field of applied algebra and number theory has led to important and substantial breakthroughs in many areas This collection of survey articles has been authored by close colleagues and leading experts to mark the occasion of his 70th birthday The book provides a modern overview of different research areas covering uniform distribution and quasi Monte Carlo methods as well as finite fields and their applications in particular cryptography and pseudorandom number generation Many results are published here for the first time The book serves as a useful starting point for graduate students new to these areas or as a refresher for researchers wanting to follow recent trends **Number Theory and Applications** S.D. Adhikari,B. Ramakrishnan,2009-06-15 This collection of articles contains the proceedings of the two international conferences on Number Theory and Cryptography held at the Harish Chandra Research Institute In recent years the interest in number theory has increased due to its applications in areas like error correcting codes and cryptography These proceedings contain papers in various areas of number theory such as combinatorial algebraic analytic and transcendental aspects arithmetic algebraic geometry as well as graph theory and cryptography While some papers do contain new results several of the papers are expository articles that mention open questions which will be useful to young researchers **Number Theory, Analysis and Geometry** Dorian Goldfeld,Jay Jorgenson,Peter Jones,Dinakar Ramakrishnan,Kenneth Ribet,John Tate,2011-12-21 Serge Lang was an iconic figure in mathematics both for his own important work and for the indelible impact he left on the field of mathematics on his students and on his colleagues Over the course of his career Lang traversed a tremendous amount of mathematical ground As he moved from subject to subject he found analogies that led to important questions in such areas as number theory arithmetic geometry and the theory of negatively curved spaces Lang s conjectures will keep many mathematicians occupied far into the future In the spirit of Lang s vast contribution to mathematics this memorial volume contains articles by prominent

mathematicians in a variety of areas of the field namely Number Theory Analysis and Geometry representing Lang s own breadth of interest and impact A special introduction by John Tate includes a brief and fascinating account of the Serge Lang s life This volume s group of 6 editors are also highly prominent mathematicians and were close to Serge Lang both academically and personally The volume is suitable to research mathematicians in the areas of Number Theory Analysis and Geometry *Algebraic, Number Theoretic, and Topological Aspects of Ring Theory* Jean-Luc Chabert,Marco Fontana,Sophie Frisch,Sarah Glaz,Keith Johnson,2023-07-07 This volume has been curated from two sources presentations from the Conference on Rings and Polynomials Technische Universit t Graz Graz Austria July 19 24 2021 and papers intended for presentation at the Fourth International Meeting on Integer valued Polynomials and Related Topics CIRM Luminy France which was cancelled due to the pandemic The collection ranges widely over the algebraic number theoretic and topological aspects of rings algebras and polynomials Two areas of particular note are topological methods in ring theory and integer valued polynomials The book is dedicated to the memory of Paul Jean Cahen a coauthor or research collaborator with some of the conference participants and a friend to many of the others This collection contains a memorial article about Paul Jean Cahen written by his longtime research collaborator and coauthor Jean Luc Chabert *Zeta Integrals, Schwartz Spaces and Local Functional Equations* Wen-Wei Li,2018-11-02 This book focuses on a conjectural class of zeta integrals which arose from a program born in the work of Braverman and Kazhdan around the year 2000 the eventual goal being to prove the analytic continuation and functional equation of automorphic L functions Developing a general framework that could accommodate Schwartz spaces and the corresponding zeta integrals the author establishes a formalism states desiderata and conjectures draws implications from these assumptions and shows how known examples fit into this framework supporting Sakellaridis vision of the subject The collected results both old and new and the included extensive bibliography will be valuable to anyone who wishes to understand this program and to those who are already working on it and want to overcome certain frequently occurring technical difficulties **Topological Groups and the Pontryagin-van Kampen Duality** Lydia Außenhofer,Dikran Dikranjan,Anna Giordano Bruno,2021-11-22 This book provides an introduction to topological groups and the structure theory of locally compact abelian groups with a special emphasis on Pontryagin van Kampen duality including a completely self contained elementary proof of the duality theorem Further related topics and applications are treated in separate chapters and in the appendix Unusual Applications of Number Theory Melvyn Bernard Nathanson,2004 This volume contains the proceedings of the workshop held at the DIMACS Center of Rutgers University Piscataway NJ on Unusual Applications of Number Theory Standard applications of number theory are to computer science and cryptology In this volume well known number theorist Melvyn B Nathanson gathers articles from the workshop on other less standard applications in number theory as well as topics in number theory with potential applications in science and engineering The material is suitable for graduate students and researchers interested in number theory and its applications

p-Adic Analysis W. A. Zúñiga-Galindo,2024-12-02 This book is intended to provide a fast interdisciplinary introduction to the basic results of p adic analysis and its connections with mathematical physics and applications The book revolves around three topics 1 p adic heat equations and ultradiffusion 2 fundamental solutions and local zeta functions Riesz kernels and quadratic forms 3 Sobolev type spaces and pseudo differential evolution equations These topics are deeply connected with very relevant current research areas The book includes numerous examples exercises and snapshots of several mathematical theories This book arose from the need to quickly introduce mathematical audience the basic concepts and techniques to do research in p adic analysis and its connections with mathematical physics and other areas The book is addressed to a general mathematical audience which includes computer scientists theoretical physicists and people interested in mathematical analysis PDEs etc Research Schools on Number Theory in India Purabi Mukherji,2021-01-05 This book is an attempt to describe the gradual development of the major schools of research on number theory in South India Punjab Mumbai Bengal and Bihar including the establishment of Tata Institute of Fundamental Research TIFR Mumbai a landmark event in the history of research of number theory in India Research on number theory in India during modern times started with the advent of the iconic genius Srinivasa Ramanujan inspiring mathematicians around the world This book discusses the national and international impact of the research made by Indian number theorists It also includes a carefully compiled comprehensive bibliography of major 20th century Indian number theorists making this book important from the standpoint of historic documentation and a valuable resource for researchers of the field for their literature survey This book also briefly discusses the importance of number theory in the modern world of mathematics including applications of the results developed by indigenous number theorists in practical fields Since the book is written from the viewpoint of the history of science technical jargon and mathematical expressions have been avoided as much as possible **Relative Trace Formulas** Werner Müller,Sug Woo Shin,Nicolas Templier,2021-05-18 A series of three symposia took place on the topic of trace formulas each with an accompanying proceedings volume The present volume is the third and final in this series and focuses on relative trace formulas in relation to special values of L functions integral representations arithmetic cycles theta correspondence and branching laws The first volume focused on Arthur s trace formula and the second volume focused on methods from algebraic geometry and representation theory The three proceedings volumes have provided a snapshot of some of the current research in the hope of stimulating further research on these topics The collegial format of the symposia allowed a homogeneous set of experts to isolate key difficulties going forward and to collectively assess the feasibility of diverse approaches **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 **Women in Commutative Algebra** Claudia Miller,Janet Striuli,Emily E. Witt,2022-03-18 This volume features contributions from the Women in Commutative Algebra WICA workshop held at the Banff International Research Station BIRS from October 20 25 2019 run by the Pacific Institute of Mathematical Sciences PIMS The purpose of this meeting was for groups of mathematicians to work on joint research projects in the mathematical field of Commutative Algebra and continue these projects together long distance after its close The chapters include both direct results and surveys with contributions from research groups and individual authors The WICA conference was the first of its kind in the large and vibrant area of Commutative Algebra and this volume is intended to showcase its important results and to encourage further collaboration among marginalized practitioners in the field It will be of interest to a wide range of researchers from PhD students to senior experts **Twisted Isospectrality, Homological Wideness, and Isometry** Gunther Cornelissen,Norbert Peyerimhoff,2023-05-10 The question of reconstructing a geometric shape from spectra of operators such as the Laplace operator is decades old and an active area of research in mathematics and mathematical physics This book focusses on the case of compact Riemannian manifolds and in particular the question whether one can find finitely many natural operators that determine whether two such manifolds are isometric coverings The methods outlined in the book fit into the tradition of the famous work of Sunada on the construction of isospectral non isometric manifolds and thus do not focus on analytic techniques but rather on algebraic methods in particular the analogy with constructions in number theory methods from representation theory and from algebraic topology The main goal of the book is to present the construction of finitely many twisted Laplace operators whose spectrum determines covering equivalence of two Riemannian manifolds The book has a leisure pace and presents details and examples that are hard to find in the literature concerning fiber products of manifolds and orbifolds the distinction between the spectrum and the spectral zeta function for general operators strong isospectrality twisted Laplacians the action of isometry groups on homology groups monomial structures on group representations geometric and group theoretical realisation of coverings with wreath products as covering groups and class field theory for manifolds The book contains a wealth of worked examples and open problems After perusing the book the reader will have a comfortable working knowledge of the algebraic approach to isospectrality This is an open access book

Constructive Commutative Algebra Ihsen Yengui,2015-12-11 The main goal of this book is to find the constructive content hidden in abstract proofs of concrete theorems in Commutative Algebra especially in well known theorems concerning projective modules over polynomial rings mainly the Quillen Suslin theorem and syzygies of multivariate polynomials with coefficients in a valuation ring Simple and constructive proofs of some results in the theory of projective modules over polynomial rings are also given and light is cast upon recent progress on the Hermite ring and Gr bner ring conjectures New conjectures on unimodular completion arising from our constructive approach to the unimodular completion problem are presented Constructive algebra can be understood as a first preprocessing step for computer algebra that leads to the

discovery of general algorithms even if they are sometimes not efficient From a logical point of view the dynamical evaluation gives a constructive substitute for two highly nonconstructive tools of abstract algebra the Law of Excluded Middle and Zorn s Lemma For instance these tools are required in order to construct the complete prime factorization of an ideal in a Dedekind ring whereas the dynamical method reveals the computational content of this construction These lecture notes follow this dynamical philosophy **Advances in Rings, Modules and Factorizations** Alberto Facchini,Marco Fontana,Alfred Geroldinger,Bruce Olberding,2020-06-02 Occasioned by the international conference Rings and Factorizations held in February 2018 at University of Graz Austria this volume represents a wide range of research trends in the theory of commutative and non commutative rings and their modules including multiplicative ideal theory Dedekind and Krull rings and their generalizations rings of integer valued polynomials topological aspects of ring theory factorization theory in rings and semigroups and direct sum decompositions of modules The volume will be of interest to researchers seeking to extend or utilize work in these areas as well as graduate students wishing to find entryways into active areas of current research in algebra A novel aspect of the volume is an emphasis on how diverse types of algebraic structures and contexts rings modules semigroups categories may be treated with overlapping and reinforcing approaches

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 *Ramanujan's Notebooks* Bruce C. Berndt,2012-12-06 Srinivasa Ramanujan is arguably the greatest mathematician that India has produced His story is quite unusual although he had no formal education inmathematics he taught himself and managed to produce many important new results With the support of the English number theorist G H Hardy Ramanujan received a scholarship to go to England and study mathematics He died very young at the age of 32 leaving behind three notebooks containing almost 3000 theorems virtually all without proof G H Hardy and others strongly urged that notebooks be edited and published and the result is this series of books This volume dealswith Chapters 1 9 of Book II each theorem is either proved or a reference to a proof is given

Chain Conditions in Commutative Rings Ali Benhissi,2022-10-07 This book gathers in a beautifully structured way recent

findings on chain conditions in commutative algebra that were previously only available in papers The majority of chapters are self contained and all include detailed proofs a wealth of examples and solved exercises and a complete reference list The topics covered include S Noetherian S Artinian Nonnil Noetherian and Strongly Hopfian properties on commutative rings and their transfer to extensions such as polynomial and power series rings and more Though primarily intended for readers with a background in commutative rings modules polynomials and power series extension rings the book can also be used as a reference guide to support graduate level algebra courses or as a starting point for further research *Irrationality and Transcendence in Number Theory* David Angell,2021-12-30 Irrationality and Transcendence in Number Theory tells the story of irrational numbers from their discovery in the days of Pythagoras to the ideas behind the work of Baker and Mahler on transcendence in the 20th century It focuses on themes of irrationality algebraic and transcendental numbers continued fractions approximation of real numbers by rationals and relations between automata and transcendence This book serves as a guide and introduction to number theory for advanced undergraduates and early postgraduates Readers are led through the developments in number theory from ancient to modern times The book includes a wide range of exercises from routine problems to surprising and thought provoking extension material Features Uses techniques from widely diverse areas of mathematics including number theory calculus set theory complex analysis linear algebra and the theory of computation Suitable as a primary textbook for advanced undergraduate courses in number theory or as supplementary reading for interested postgraduates Each chapter concludes with an appendix setting out the basic facts needed from each topic so that the book is accessible to readers without any specific specialist background

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