

Progress in Mathematics



Number Fields and Function Fields — Two Parallel Worlds

Gerard van der Geer
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Editors



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Number Fields And Function Fields Two Parallel Worlds:

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Invited articles by leading researchers explore various aspects of the parallel worlds of function fields and number fields
Topics range from Arakelov geometry the search for a theory of varieties over the field with one element via Eisenstein series to Drinfeld modules and t motives Aimed at graduate students mathematicians and researchers interested in geometry and arithmetic and their connections

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Number Fields and Function Fields - Two Parallel Worlds Gerard B. M. van der Geer, B.J.J Moonen, René Schoof, 2006-11-24
Ever since the analogy between number fields and function fields was discovered it has been a source of inspiration for new ideas and a long history has not in any way detracted from the appeal of the subject As a deeper understanding of this analogy could have tremendous consequences the search for a unified approach has become a sort of Holy Grail The arrival of Arakelov's new geometry that tries to put the archimedean places on a par with the finite ones gave a new impetus and led to spectacular success in Faltings' hands There are numerous further examples where ideas or techniques from the more geometrically oriented world of function fields have led to new insights in the more arithmetically oriented world of number fields or vice versa These invited articles by leading researchers in the field explore various aspects of the parallel worlds of function fields and number fields
Topics range from Arakelov geometry the search for a theory of varieties over the field with one element via Eisenstein series to Drinfeld modules and t motives This volume is aimed at a wide audience of graduate students mathematicians and researchers interested in geometry and arithmetic and their connections

From Arithmetic to Zeta-Functions Jürgen Sander, Jörn Steuding, Rasa Steuding, 2016-12-29
This book collects more than thirty contributions in memory of Wolfgang Schwarz most of which were presented at the seventh International Conference on Elementary and Analytic Number Theory ELAZ held July 2014 in Hildesheim Germany Ranging from the theory of arithmetical functions to diophantine problems to analytic aspects of zeta functions the various research and survey articles cover the broad interests of the well known number theorist and cherished colleague Wolfgang Schwarz 1934-2013 who contributed over one hundred articles on number theory its history and related fields Readers interested in elementary or analytic number theory and related fields will certainly find many fascinating topical results among the contributions from both respected mathematicians and up and coming young researchers In addition some biographical articles highlight the life and mathematical works of Wolfgang Schwarz

Three Lectures on

Commutative Algebra Holger Brenner, Jürgen Herzog, Orlando E. Villamayor, 2008 These lectures provides detailed introductions to some of the latest advances in three significant areas of rapid development in commutative algebra and its applications tight closure and vector bundles combinatorics and commutative algebra constructive desingularization

Casimir Force, Casimir Operators, and the Riemann Hypothesis Gerrit van Dijk, Masato Wakayama, 2010 The series is aimed specifically at publishing peer reviewed reviews and contributions presented at workshops and conferences Each volume is associated with a particular conference symposium or workshop These events cover various topics within pure and applied mathematics and provide up to date coverage of new developments methods and applications New Foundations

for Geometry: Two Non-Additive Languages for Arithmetical Geometry Shai M. J. Haran, 2017-02-20 To view the abstract go to <http://www.ams.org/books/memo/1166>

Noncommutative Geometry, Arithmetic, and Related Topics Caterina Consani, Alain Connes, 2011 Mathematics Institute these essays collectively provide mathematicians and physicists with a comprehensive resource on the topic

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

Arithmetic Geometry and Number Theory Lin Weng, Iku Nakamura, 2006 Mathematics is very much a part of our culture and this invaluable collection serves the purpose of developing the branches involved popularizing the existing theories and guiding our future explorations More precisely the goal is to bring the reader to the frontier of current developments in arithmetic geometry and number theory through the works of Deninger Werner in vector bundles on curves over p adic fields of Jiang on local gamma factors in automorphic representations of Weng on Deligne pairings and Takhtajan Zograf metrics of Yoshida on CM periods of Yu on transcendence of special values of zetas over finite fields In addition the lecture notes presented by Weng at the University of Toronto from October to November 2005 explain basic ideas and the reasons not just the language

and conclusions behind Langlands fundamental yet notably difficult works on the Eisenstein series and spectral decompositions And finally a brand new concept by Weng called the Geometric Arithmetic program that uses algebraic and or analytic methods based on geometric considerations to develop the promising and yet to be cultivated land of global arithmetic that includes non abelian Class Field Theory Riemann Hypothesis and non abelian Zeta and L Functions etc

Mathematics Going Forward Jean-Michel Morel, Bernard Teissier, 2023-05-13 This volume is an original collection of articles by 44 leading mathematicians on the theme of the future of the discipline The contributions range from musings on the future of specific fields to analyses of the history of the discipline to discussions of open problems and conjectures including first solutions of unresolved problems Interestingly the topics do not cover all of mathematics but only those deemed most worthy to reflect on for future generations These topics encompass the most active parts of pure and applied mathematics including algebraic geometry probability logic optimization finance topology partial differential equations category theory number theory differential geometry dynamical systems artificial intelligence theory of groups mathematical physics and statistics

Foundations of Arithmetic Differential Geometry Alexandru Buium, 2023-11-20 The aim of this book is to introduce and develop an arithmetic analogue of classical differential geometry In this new geometry the ring of integers plays the role of a ring of functions on an infinite dimensional manifold The role of coordinate functions on this manifold is played by the prime numbers The role of partial derivatives of functions with respect to the coordinates is played by the Fermat quotients of integers with respect to the primes The role of metrics is played by symmetric matrices with integer coefficients The role of connections respectively curvature attached to metrics is played by certain adelic respectively global objects attached to the corresponding matrices One of the main conclusions of the theory is that the spectrum of the integers is intrinsically curved the study of this curvature is then the main task of the theory The book follows and builds upon a series of recent research papers A significant part of the material has never been published before

The Geometric and Arithmetic Volume of Shimura Varieties of Orthogonal Type Fritz Hörmann, 2014-11-05 This book outlines a functorial theory of integral models of mixed Shimura varieties and of their toroidal compactifications for odd primes of good reduction This is the integral version developed in the author's thesis of the theory invented by Deligne and Pink in the rational case In addition the author develops a theory of arithmetic Chern classes of integral automorphic vector bundles with singular metrics using the work of Burgos Kramer and Kühn The main application is calculating arithmetic volumes or heights of Shimura varieties of orthogonal type using Borcherds famous modular forms with their striking product formula an idea due to Bruinier Burgos Kühn and Kudla This should be seen as an Arakelov analogue of the classical calculation of volumes of orthogonal locally symmetric spaces by Siegel and Weil In the latter theory the volumes are related to special values of normalized Siegel Eisenstein series In this book it is proved that the Arakelov analogues are related to special derivatives of such Eisenstein series This result gives substantial evidence in the direction of Kudla's conjectures in arbitrary dimensions

The validity of the full set of conjectures of Kudla in turn would give a conceptual proof and far reaching generalizations of the work of Gross and Zagier on the Birch and Swinnerton Dyer conjecture Titles in this series are co published with the Centre de Recherches Math matiques

D-Modules, Perverse Sheaves, and Representation Theory Ryoshi Hotta,Toshiyuki Tanisaki,2007-11-07 D modules continues to be an active area of stimulating research in such mathematical areas as algebraic analysis differential equations and representation theory Key to D modules Perverse Sheaves and Representation Theory is the authors essential algebraic analytic approach to the theory which connects D modules to representation theory and other areas of mathematics To further aid the reader and to make the work as self contained as possible appendices are provided as background for the theory of derived categories and algebraic varieties The book is intended to serve graduate students in a classroom setting and as self study for researchers in algebraic geometry representation theory

Representation Theory and Automorphic Forms Toshiyuki Kobayashi,Wilfried Schmid,Jae-Hyun Yang,2007-10-10 This volume uses a unified approach to representation theory and automorphic forms It collects papers written by leading mathematicians that track recent progress in the expanding fields of representation theory and automorphic forms and their association with number theory and differential geometry Topics include Automorphic forms and distributions modular forms visible actions Dirac cohomology holomorphic forms harmonic analysis self dual representations and Langlands Functoriality Conjecture Both graduate students and researchers will find inspiration in this volume

Arithmetic Groups and Their Generalizations Lizhen Ji,2008 In one guise or another many mathematicians are familiar with certain arithmetic groups such as \mathbf{Z} or $\mathrm{SL}(n, \mathbf{Z})$ Yet many applications of arithmetic groups and many connections to other subjects within mathematics are less well known Indeed arithmetic groups admit many natural and important generalizations The purpose of this expository book is to explain through some brief and informal comments and extensive references what arithmetic groups and their generalizations are why they are important to study and how they can be understood and applied to many fields such as analysis geometry topology number theory representation theory and algebraic geometry It is hoped that such an overview will shed a light on the important role played by arithmetic groups in modern mathematics Titles in this series are co published with International Press Cambridge MA

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geometrically finite groups Large scale geometry of discrete groups Tree lattices Hyperbolic groups Mapping class groups and outer automorphism groups of free groups Outer automorphism group of free groups and the outer spaces References Index Review from Mathematical Reviews the author deserves credit for having done the tremendous job of encompassing every aspect of arithmetic groups visible in today's mathematics in a systematic manner the book should be an important guide for some time to come AMSIP 43

The 1-2-3 of Modular Forms Jan Hendrik Bruinier, Gerard van der Geer, Günter Harder, Don Zagier, 2008-02-10 This book grew out of three series of lectures given at the summer school on Modular Forms and their Applications at the Sophus Lie Conference Center in Nordfjordeid in June 2004 The first series treats the classical one variable theory of elliptic modular forms The second series presents the theory of Hilbert modular forms in two variables and Hilbert modular surfaces The third series gives an introduction to Siegel modular forms and discusses a conjecture by Harder It also contains Harder's original manuscript with the conjecture Each part treats a number of beautiful applications

Topological Modular Forms Christopher L. Douglas, John Francis, André G. Henriques, Michael A. Hill, 2014-12-04 The theory of topological modular forms is an intricate blend of classical algebraic modular forms and stable homotopy groups of spheres The construction of this theory combines an algebro-geometric perspective on elliptic curves over finite fields with techniques from algebraic topology particularly stable homotopy theory It has applications to and connections with manifold topology number theory and string theory This book provides a careful accessible introduction to topological modular forms After a brief history and an extended overview of the subject the book proper commences with an exposition of classical aspects of elliptic cohomology including background material on elliptic curves and modular forms a description of the moduli stack of elliptic curves an explanation of the exact functor theorem for constructing cohomology theories and an exploration of sheaves in stable homotopy theory There follows a treatment of more specialized topics including localization of spectra the deformation theory of formal groups and Goerss Hopkins obstruction theory for multiplicative structures on spectra The book then proceeds to more advanced material including discussions of the string orientation the sheaf of spectra on the moduli stack of elliptic curves the homotopy of topological modular forms and an extensive account of the construction of the spectrum of topological modular forms The book concludes with the three original pioneering and enormously influential manuscripts on the subject by Hopkins Miller and Mahowald

Metric Foliations and Curvature Detlef Gromoll, Gerard Walschap, 2009-03-28 In the past three or four decades there has been increasing realization that metric foliations play a key role in understanding the structure of Riemannian manifolds particularly those with positive or nonnegative sectional curvature In fact all known such spaces are constructed from only a representative handful by means of metric fibrations or deformations thereof This text is an attempt to document some of these constructions many of which have only appeared in journal form The emphasis here is less on the fibration itself and more on how to use it to either construct or understand a metric with curvature of fixed sign on a given space

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