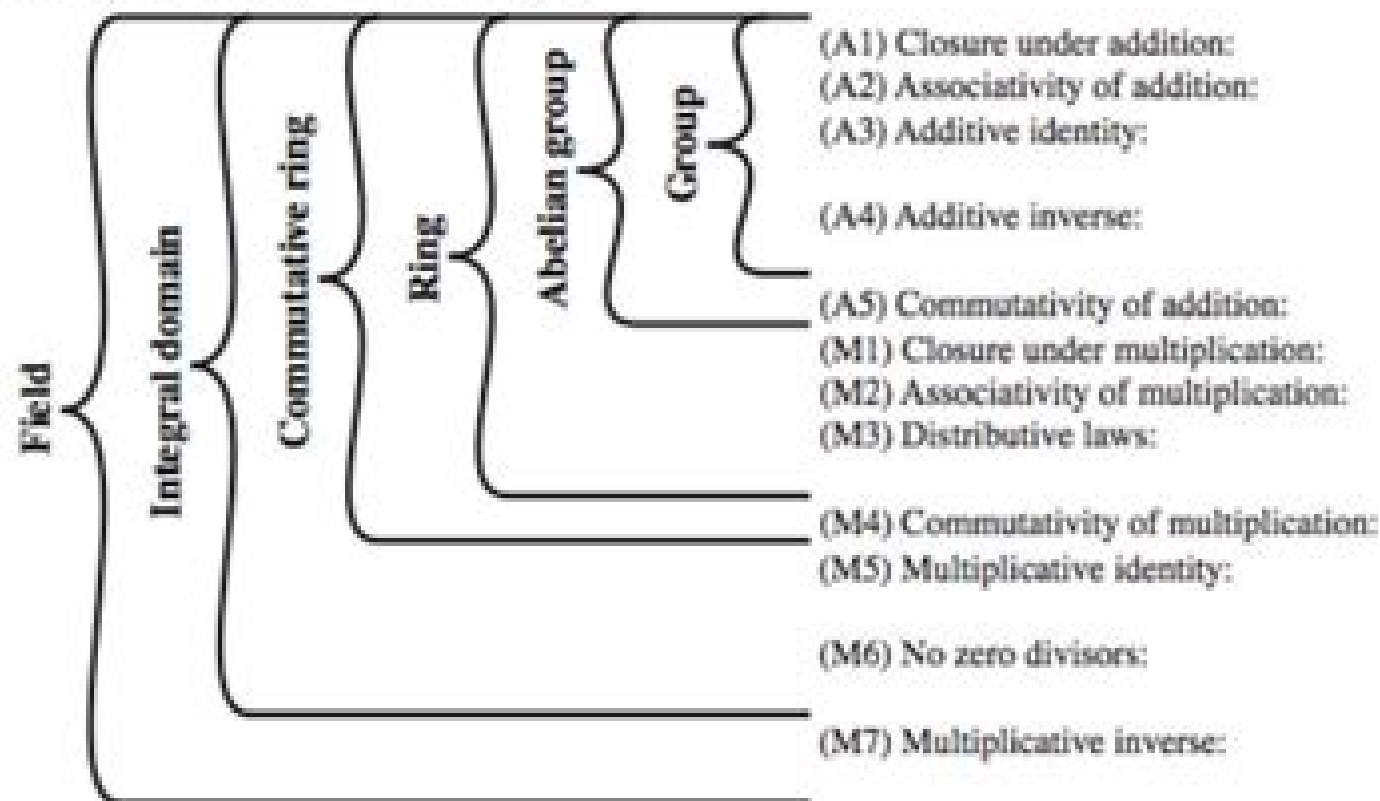


Field

□ **Field**: An integral domain in which each element has a multiplicative inverse.



Number Theory In Function Fields

David Goss



Number Theory In Function Fields:

Number Theory in Function Fields Michael Rosen, 2013-04-18 Elementary number theory is concerned with the arithmetic properties of the ring of integers $\mathbb{Z}$ and its field of fractions the rational numbers $\mathbb{Q}$ Early on in the development of the subject it was noticed that $\mathbb{Z}$ has many properties in common with A If T the ring of polynomials over a finite field Both rings are principal ideal domains both have the property that the residue class ring of any non zero ideal is finite both rings have infinitely many prime elements and both rings have finitely many units Thus one is led to suspect that many results which hold for $\mathbb{Z}$ have analogues of the ring A This is indeed the case The first four chapters of this book are devoted to illustrating this by presenting for example analogues of the little theorems of Fermat and Euler Wilson's theorem quadratic and higher reciprocity the prime number theorem and Dirichlet's theorem on primes in an arithmetic progression All these results have been known for a long time but it is hard to locate any exposition of them outside of the original papers Algebraic number theory arises from elementary number theory by considering finite algebraic extensions K of $\mathbb{Q}$ which are called algebraic number fields and investigating properties of the ring of algebraic integers $\mathcal{O}_K$ $\mathcal{C}_K$ defined as the integral closure of $\mathbb{Z}$ in K

Topics in the Theory of Algebraic Function Fields Gabriel Daniel Villa Salvador, 2007-10-10 The fields of algebraic functions of one variable appear in several areas of mathematics complex analysis algebraic geometry and number theory This text adopts the latter perspective by applying an arithmetic algebraic viewpoint to the study of function fields as part of the algebraic theory of numbers The examination explains both the similarities and fundamental differences between function fields and number fields including many exercises and examples to enhance understanding and motivate further study The only prerequisites are a basic knowledge of field theory complex analysis and some commutative algebra The book can serve as a text for a graduate course in number theory or an advanced graduate topics course Alternatively chapters 1-4 can serve as the base of an introductory undergraduate course for mathematics majors while chapters 5-9 can support a second course for advanced undergraduates Researchers interested in number theory field theory and their interactions will also find the work an excellent reference

Basic Structures of Function Field Arithmetic David Goss, 1997-11-18 From the reviews The book is a thorough and very readable introduction to the arithmetic of function fields of one variable over a finite field by an author who has made fundamental contributions to the field It serves as a definitive reference volume as well as offering graduate students with a solid understanding of algebraic number theory the opportunity to quickly reach the frontiers of knowledge in an important area of mathematics The arithmetic of function fields is a universe filled with beautiful surprises in which familiar objects from classical number theory reappear in new guises and in which entirely new objects play important roles Goss' clear exposition and lively style make this book an excellent introduction to this fascinating field MR 97i 11062

The Arithmetic of Function Fields David Goss, David R. Hayes, Michael Rosen, 2011-06-24 This series is devoted to the publication of monographs lecture resp seminar notes and other materials

arising from programs of the OSU Mathemaical Research Institute This includes proceedings of conferences or workshops held at the Institute and other mathematical writings *Arithmetic Geometry over Global Function Fields* Gebhard Böckle, David Burns, David Goss, Dinesh Thakur, Fabien Trihan, Douglas Ulmer, 2014-11-13 This volume collects the texts of five courses given in the Arithmetic Geometry Research Programme 2009 2010 at the CRM Barcelona All of them deal with characteristic p global fields the common theme around which they are centered is the arithmetic of L functions and other special functions investigated in various aspects Three courses examine some of the most important recent ideas in the positive characteristic theory discovered by Goss a field in tumultuous development which is seeing a number of spectacular advances they cover respectively crystals over function fields with a number of applications to L functions of t motives gamma and zeta functions in characteristic p and the binomial theorem The other two are focused on topics closer to the classical theory of abelian varieties over number fields they give respectively a thorough introduction to the arithmetic of Jacobians over function fields including the current status of the BSD conjecture and its geometric analogues and the construction of Mordell Weil groups of high rank and a state of the art survey of Geometric Iwasawa Theory explaining the recent proofs of various versions of the Main Conjecture in the commutative and non commutative settings **Number Fields and Function Fields - Two Parallel Worlds** Gerard van der Geer, B.J.J Moonen, René Schoof, 2005-09-14 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 **Number Theory** Helmut Koch, 2000 Algebraic number theory is one of the most refined creations in mathematics It has been developed by some of the leading mathematicians of this and previous centuries The primary goal of this book is to present the essential elements of algebraic number theory including the theory of normal extensions up through a glimpse of class field theory Following the example set for us by Kronecker Weber Hilbert and Artin algebraic functions are handled here on an equal footing with algebraic numbers This is done on the one hand to demonstrate the analogy between number fields and function fields which is especially clear in the case where the ground field is a finite field On the other hand in this way one obtains an introduction to the theory of higher congruences as an important element of arithmetic geometry Early chapters discuss topics in elementary number theory such as Minkowski s geometry of numbers public key cryptography and a short proof of the Prime Number Theorem following Newman and Zagier Next some of the tools of algebraic number theory are introduced such as ideals discriminants and valuations These results are then applied to obtain results about function fields including a proof of the Riemann Roch Theorem and as an application of cyclotomic fields a proof of the first case of Fermat s Last Theorem There are a detailed exposition of the theory of Hecke L series following Tate and explicit applications to number theory such as the Generalized Riemann

Hypothesis Chapter 9 brings together the earlier material through the study of quadratic number fields Finally Chapter 10 gives an introduction to class field theory The book attempts as much as possible to give simple proofs It can be used by a beginner in algebraic number theory who wishes to see some of the true power and depth of the subject The book is suitable for two one semester courses with the first four chapters serving to develop the basic material Chapters 6 through 9 could be used on their own as a second semester course

Algebraic Function Fields and Codes Henning Stichtenoth, 2009-08-29

This book links two subjects algebraic geometry and coding theory It uses a novel approach based on the theory of algebraic function fields Coverage includes the Riemann-Roch theorem zeta functions and Hasse-Weil's theorem as well as Goppa's algebraic geometric codes and other traditional codes It will be useful to researchers in algebraic geometry and coding theory and computer scientists and engineers in information transmission

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

Function Field Arithmetic Dinesh S.

Thakur, 2004 This book provides an exposition of function field arithmetic with emphasis on recent developments concerning Drinfeld modules the arithmetic of special values of transcendental functions such as zeta and gamma functions and their interpolations diophantine approximation and related interesting open problems While it covers many topics treated in Basic Structures of Function Field Arithmetic by David Goss it complements that book with the inclusion of recent developments as well as the treatment of new topics such as diophantine approximation hypergeometric functions modular forms transcendence automata and solitons There is also new work on multizeta values and log algebraicity The author has included numerous worked out examples Many open problems which can serve as good thesis problems are discussed

Number Fields and Function Fields - Two Parallel Worlds Gerard van der Geer, B. J. J. Moonen, René Schoof, 2008-11-01

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

Basic Structures of Function Field Arithmetic David Goss, 2012-12-06 From the reviews The book is a thorough and very readable introduction to the arithmetic of function fields of one variable over a finite field by an author who has made fundamental contributions to the field It serves as a definitive reference volume as well as offering graduate students with a solid understanding of algebraic number theory the opportunity to quickly reach the frontiers of knowledge in an important area of mathematics The arithmetic of function fields is a universe filled with beautiful surprises in which familiar objects from classical number theory reappear in new guises and in which entirely new objects play important roles Goss' clear exposition and lively style make this book an excellent introduction to this fascinating field MR 97i 11062

Ultrametric Functional Analysis Bertin Diarra, 2005 With contributions by leading mathematicians this proceedings volume reflects the program of the Eighth International Conference on p adic Functional Analysis held at Blaise Pascal University Clermont Ferrand France Articles in the book offer a comprehensive overview of research in the area A wide range of topics are covered including basic ultrametric functional analysis topological vector spaces measure and integration Choquet theory Banach and topological algebras analytic functions in particular in connection with algebraic geometry roots of rational functions and Frobenius structure in p adic differential equations and q ultrametric calculus The material is suitable for graduate students and researchers interested in number theory functional analysis and algebra

The Riemann Hypothesis for Function Fields Machiel van Frankenhuysen, 2014-01-09 This book provides a lucid exposition of the connections between non commutative geometry and the famous Riemann Hypothesis focusing on the theory of one dimensional varieties over a finite field The reader will encounter many important aspects of the theory such as Bombieri's proof of the Riemann Hypothesis for function fields along with an explanation of the connections with Nevanlinna theory and non commutative geometry The connection with non commutative geometry is given special attention with a complete determination of the Weil terms in the explicit formula for the point counting function as a trace of a shift operator on the additive space and a discussion of how to obtain the explicit formula from the action of the idele class group on the space of adèle classes The exposition is accessible at the graduate level and above and provides a wealth of motivation for further research in this area

Algorithmic Number Theory Alf J. van der Poorten, Andreas Stein, 2008-04-25 This book constitutes the refereed proceedings of the 8th International Algorithmic Number Theory Symposium ANTS 2008 held in Banff Canada in May 2008 The 28 revised full papers presented together with 2 invited papers were carefully reviewed and selected for inclusion in the book The papers are organized in topical sections on elliptic curves cryptology and generalizations arithmetic of elliptic curves integer factorization K3 surfaces number fields point counting arithmetic of function fields modular forms cryptography and number theory

Algebraic Number Theory Serge Lang, 2013-06-29 The present book gives an exposition of the classical basic algebraic and analytic number theory and supersedes my Algebraic

Numbers including much more material e.g. the class field theory on which I make further comments at the appropriate place later. For different points of view the reader is encouraged to read the collection of papers from the Brighton Symposium edited by Cassels-Frohlich, the Artin-Tate notes on class field theory, Weil's book on Basic Number Theory, Borevich-Shafarevich's Number Theory and also older books like those of Weber, Hasse, Hecke and Hilbert's Zahlbericht. It seems that over the years everything that has been done has proved useful theoretically or as examples for the further development of the theory. Old and seemingly isolated special cases have continuously acquired renewed significance often after half a century or more. The point of view taken here is principally global and we deal with local fields only incidentally. For a more complete treatment of these cf. Serre's book *Corps Locaux*. There is much to be said for a direct global approach to number fields. Stylistically I have intermingled the ideal and idelic approaches without prejudice for either. I also include two proofs of the functional equation for the zeta function to acquaint the reader with different techniques in some sense equivalent but in another sense suggestive of very different moods.

Number Theory R.P. Bambah, V.C. Dumir, R.J. Hans-Gill, 2012-12-06

The Indian National Science Academy on the occasion of the Golden Jubilee Celebration Fifty years of India's Independence decided to publish a number of monographs on the selected fields. The editorial board of INS A invited us to prepare a special monograph in Number Theory. In response to this assignment we invited several eminent Number Theorists to contribute expository research articles for this monograph on Number Theory. Although some of those invited due to other preoccupations could not respond positively to our invitation we did receive fairly encouraging response from many eminent and creative number theorists throughout the world. These articles are presented herewith in a logical order. We are grateful to all those mathematicians who have sent us their articles. We hope that this monograph will have a significant impact on further development in this subject.

R. P. Bambah, V. C. Dumir, R. J. Hans-Gill

A Centennial History of the Prime Number Theorem
Tom M. Apostol

The Prime Number Theorem. Among the thousands of discoveries made by mathematicians over the centuries some stand out as significant landmarks. One of these is the prime number theorem which describes the asymptotic distribution of prime numbers. It can be stated in various equivalent forms two of which are $\pi(x) \sim \frac{x}{\log x}$ and $\sum_{p \leq x} \frac{1}{p} \sim \log \log x$. $\pi(x)$ denotes the number of primes $P \leq x$ for any $x > 0$.

Weil's Conjecture for Function Fields Dennis Gaitsgory, Jacob Lurie, 2019

A central concern of number theory is the study of local to global principles which describe the behavior of a global field K in terms of the behavior of various completions of K . This book looks at a specific example of a local to global principle: Weil's conjecture on the Tamagawa number of a semisimple algebraic group G over K . In the case where K is the function field of an algebraic curve X , this conjecture counts the number of G bundles on X global information in terms of the reduction of G at the points of X local information. The goal of this book is to give a conceptual proof of Weil's conjecture based on the geometry of the moduli stack of G bundles. Inspired by ideas from algebraic topology it introduces a theory of factorization homology in the setting of adic sheaves. Using this theory Dennis Gaitsgory and Jacob Lurie articulate a

different local to global principle a product formula that expresses the cohomology of the moduli stack of G bundles a global object as a tensor product of local factors Using a version of the Grothendieck Lefschetz trace formula Gaitsgory and Lurie show that this product formula implies Weil's conjecture The proof of the product formula will appear in a sequel volume

Introductory Notes on Valuation Rings and Function Fields in One Variable Renata Scognamillo, Umberto Zannier, 2014-07-01 The book deals with the elementary and introductory theory of valuation rings As explained in the introduction this represents a useful and important viewpoint in algebraic geometry especially concerning the theory of algebraic curves and their function fields The correspondences of this with other viewpoints e.g. of geometrical or topological nature are often indicated also to provide motivations and intuition for many results Links with arithmetic are also often indicated There are three appendices concerning Hilbert's Nullstellensatz for which several proofs are provided Puiseux series and Dedekind domains There are also several exercises often accompanied by hints which sometimes develop further results not included in full for brevity reasons

Cohomological Theory of Crystals Over Function Fields Gebhard Böckle, Richard Pink, 2009 This book develops a new cohomological theory for schemes in positive characteristic p and it applies this theory to give a purely algebraic proof of a conjecture of Goss on the rationality of certain L functions arising in the arithmetic of function fields These L functions are power series over a certain ring A associated to any family of Drinfeld A modules or more generally of A motives on a variety of finite type over the finite field $\mathbb{F}_p$ By analogy to the Weil conjecture Goss conjectured that these L functions are in fact rational functions In 1996 Taguchi and Wan gave a first proof of Goss's conjecture by analytic methods à la Dwork The present text introduces A crystals which can be viewed as generalizations of families of A motives and studies their cohomology While A crystals are defined in terms of coherent sheaves together with a Frobenius map in many ways they actually behave like constructible étale sheaves A central result is a Lefschetz trace formula for L functions of A crystals from which the rationality of these L functions is immediate Beyond its application to Goss's L functions the theory of A crystals is closely related to the work of Emerton and Kisin on unit root F crystals and it is essential in an Eichler-Shimura type isomorphism for Drinfeld modular forms as constructed by the first author The book is intended for researchers and advanced graduate students interested in the arithmetic of function fields and/or cohomology theories for varieties in positive characteristic It assumes a good working knowledge in algebraic geometry as well as familiarity with homological algebra and derived categories as provided by standard textbooks Beyond that the presentation is largely self-contained

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