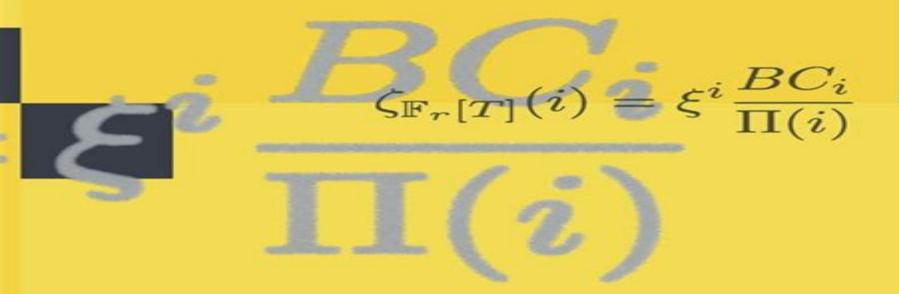
DAVID GOSS

Basic Structures of Function Field Arithmetic





Basic Structures Of Function Field Arithmetic

Michael Rosen

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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 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 B. M. van der Geer, BJJ 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 **Arithmetic and Geometry over Local Fields** Bruno Anglès, Tuan Ngo Dac, 2021-03-03 This volume introduces some recent developments in Arithmetic Geometry over local fields Its seven chapters are centered around two common themes the study of Drinfeld modules and non Archimedean analytic geometry. The notes grew out of lectures held during the research program Arithmetic and geometry of local and global fields which took place at the Vietnam Institute of Advanced Study in Mathematics VIASM from June to August 2018

The authors leading experts in the field have put great effort into making the text as self contained as possible introducing the basic tools of the subject The numerous concrete examples and suggested research problems will enable graduate students and young researchers to quickly reach the frontiers of this fascinating branch of mathematics. Number Theory in Function Fields Michael Rosen, 2013-04-18 Elementary number theory is concerned with the arithmetic properties of the ring of integers Z and its field of fractions the rational numbers Q Early on in the development of the subject it was noticed that 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 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 con sidering finite algebraic extensions K of Q which are called algebraic number fields and investigating properties of the ring of algebraic integers OK C K defined as the integral closure of Z in K

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