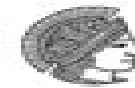


Algebraische Zahlentheorie

7. Übungsblatt



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Gruppenübung

Aufgabe G1

Zeigen Sie: Für die beiden Zahlkörper $K = \mathbb{Q}(\sqrt{-5})$ und $K = \mathbb{Q}(\sqrt{10})$ ist jeweils $h_K = 2$.

Vorgehensweise: Bestimmen Sie zunächst die Primideale, welche über den Primteilern der Diskriminante liegen. Untersuchen Sie diese sowie die triviale Idealklasse jeweils auf Äquivalenz bzw. Inäquivalenz. (*Hinweis:* Norm!)

Aufgabe G2

Sei $K = \mathbb{Q}(\sqrt{d})$ ein quadratischer Zahlkörper, wobei $d \neq 0, 1$ quadratfrei. Die Diskriminante D von K besitze eine Faktorisierung $D = D_1 \cdot D_2$, wobei D_1 und D_2 ebenfalls Diskriminanten von quadratischen Zahlkörpern sind. Dann ist die Klassenzahl $h_K \geq 2$. Es genügt, wenn Sie den Fall $d \equiv 2, 3 \pmod{4}$ zeigen.

Hinweis: Verallgemeinern Sie das Vorgehen von Aufgabe G1.

Aufgabe G3

- (a) Sei K ein Zahlkörper und \mathfrak{a} ein Ideal von $\mathcal{O}_K = \Omega \cap K$. Zeigen Sie: Es gibt eine endliche Erweiterung L von K in welcher \mathfrak{a} zu einem Hauptideal wird, d.h. $\mathfrak{a}\mathcal{O}_L$ ist ein Hauptideal, wobei wie üblich $\mathcal{O}_L = \Omega \cap L$.

Hinweis: Es gibt ein m , so dass \mathfrak{a}^m ein Hauptideal in \mathcal{O}_K ist; also $\mathfrak{a}^m = \alpha\mathcal{O}_K$. Adjungieren Sie eine m -te Wurzel von α .

- (b) Zeigen Sie nun, dass es eine *endliche* Erweiterung von K gibt, in welcher jedes Ideal von K zum Hauptideal wird.

Aufgabe G4

- (a) Ermitteln Sie die Struktur von \mathcal{O}_K^\times für den fünften Kreisteilungskörper $K = \mathbb{Q}(\zeta_5)$. Bestimmen Sie nicht-triviale Einheiten.

Hinweis: Betrachten Sie das Minimalpolynom $p(X)$ der primitiven 5ten Einheitswurzel ζ_5 und setzen Sie einen geeigneten Wert für X ein.

- (b) Ermitteln Sie die Struktur von \mathcal{O}_K^\times für $K = \mathbb{Q}(\sqrt[3]{2})$. Bestimmen Sie auch hier nicht-triviale Einheiten.

Algebraische Zahlentheorie

David Hilbert



Algebraische Zahlentheorie:

Algebraic Number Theory Jürgen Neukirch, 2013-03-14 From the review The present book has as its aim to resolve a discrepancy in the textbook literature and to provide a comprehensive introduction to algebraic number theory which is largely based on the modern unifying conception of one dimensional arithmetic algebraic geometry Despite this exacting program the book remains an introduction to algebraic number theory for the beginner The author discusses the classical concepts from the viewpoint of Arakelov theory The treatment of class field theory is particularly rich in illustrating complements hints for further study and concrete examples The concluding chapter VII on zeta functions and L series is another outstanding advantage of the present textbook The book is without any doubt the most up to date systematic and theoretically comprehensive textbook on algebraic number field theory available W Kleinert in Zentralblatt f r Mathematik 1992

Algebraic Number Theory H. Koch, Helmut Koch, 1997-09-12 From the reviews of the first printing published as Volume 62 of the Encyclopaedia of Mathematical Sciences The author succeeded in an excellent way to describe the various points of view under which Class Field Theory can be seen In any case the author succeeded to write a very readable book on these difficult themes Monatshefte fuer Mathematik 1994 Koch s book is written mostly for non specialists It is an up to date account of the subject dealing with mostly general questions Special results appear only as illustrating examples for the general features of the theory It is supposed that the reader has good general background in the fields of modern abstract algebra and elementary number theory We recommend this volume mainly to graduate students and research mathematicians Acta Scientiarum Mathematicarum 1993

A Classical Introduction to Modern Number Theory K. Ireland, M. Rosen, 2013-03-09 This book is a revised and greatly expanded version of our book Elements of Number Theory published in 1972 As with the first book the primary audience we envisage consists of upper level undergraduate mathematics majors and graduate students We have assumed some familiarity with the material in a standard undergraduate course in abstract algebra A large portion of Chapters 1-11 can be read even without such background with the aid of a small amount of supplementary reading The later chapters assume some knowledge of Galois theory and in Chapters 16 and 18 an acquaintance with the theory of complex variables is necessary Number theory is an ancient subject and its content is vast Any introductory book must of necessity make a very limited selection from the fascinating array of possible topics Our focus is on topics which point in the direction of algebraic number theory and arithmetic algebraic geometry By a careful selection of subject matter we have found it possible to exposit some rather advanced material without requiring very much in the way of technical background Most of this material is classical in the sense that it was discovered during the nineteenth century and earlier but it is also modern because it is intimately related to important research going on at the present time

Martin Kneser Collected Works Ulf Rehmann, Yuri Tschinkel, 2021-11-15 This volume presents the collection of mathematical articles by Martin Kneser reprinted in the original language mostly German including one yet unpublished

Moreover also included is an article by Raman Parimala discussing Kneser's work concerning algebraic groups and the Hasse principle which has been written especially for this volume as well as an article by Rudolf Scharlau about Kneser's work on quadratic forms published elsewhere before. Another commentary article written by G nter M Ziegler especially for this volume describes the astounding influence on the field of combinatorics of what was published as Aufgabe 360 and its subsequent solution in 1955 resp 1957 in the Jahresbericht der Deutschen Mathematiker Vereinigung. However as the titles of the articles show Kneser's mathematical interests were much broader which is beautifully discussed in an obituary by Ulrich Stuhler included as well in this volume.

Zahlentheorie Armin Leutbecher, 1996-09-03 Auf der Grundlage der Mathematikkenntnisse des ersten Studienjahres bietet der Autor eine Einf hrung in die Zahlentheorie mit Schwerpunkt auf der elementaren und algebraischen Zahlentheorie. Das Buch wendet sich auch an Nichtspezialisten denen es ber die Zahlen fr hzeitig den Weg in die Algebra ffnet. Angestrebte Ziele sind: Der Satz von Kronecker-Weber zur Kr nung der Galois-Theorie, der Minkowskische Gitterpunktsatz, der Dirichletsche Primzahlsatz und die Bewertungstheorie der Kr per.

The Theory of Algebraic Number Fields David Hilbert, 2013-03-14 Constance Reid in Chapter VII of her book Hilbert tells the story of the writing of the Zahlbericht as his report entitled Die Theorie der algebraischen Zahlk rper has always been known. At its annual meeting in 1893 the Deutsche Mathematiker Vereinigung, the German Mathematical Society, invited Hilbert and Minkowski to prepare a report on the current state of affairs in the theory of numbers to be completed in two years. The two mathematicians agreed that Minkowski should write about rational number theory and Hilbert about algebraic number theory. Although Hilbert had almost completed his share of the report by the beginning of 1896, Minkowski had made much less progress and it was agreed that he should withdraw from his part of the project. Shortly afterwards Hilbert finished writing his report on algebraic number fields and the manuscript, carefully copied by his wife, was sent to the printers. The proofs were read by Minkowski, aided in part by Hurwitz, slowly and carefully with close attention to the mathematical exposition as well as to the type setting. At Minkowski's insistence Hilbert included a note of thanks to his wife. As Constance Reid writes: The report on algebraic number fields exceeded in every way the expectation of the members of the Mathematical Society. They had asked for a summary of the current state of affairs in the theory. They received a masterpiece which simply and clearly fitted all the difficult developments of recent times into an elegantly integrated theory.

The Story of Algebraic Numbers in the First Half of the 20th Century W dys aw Narkiewicz, 2019-01-18 The book is aimed at people working in number theory or at least interested in this part of mathematics. It presents the development of the theory of algebraic numbers up to the year 1950 and contains a rather complete bibliography of that period. The reader will get information about results obtained before 1950. It is hoped that this may be helpful in preventing rediscoveries of old results and might also inspire the reader to look at the work done earlier which may hide some ideas which could be applied in contemporary research.

Elementary and Analytic Theory of Algebraic Numbers Wladyslaw Narkiewicz, 2013-06-29 The

aim of this book is to present an exposition of the theory of algebraic numbers excluding class field theory and its consequences. There are many ways to develop this subject; the latest trend is to neglect the classical Dedekind theory of ideals in favour of local methods. However, for numerical computations necessary for applications of algebraic numbers to other areas of number theory, the old approach seems more suitable, although its exposition is obviously longer. On the other hand, the local approach is more powerful for analytical purposes, as demonstrated in Tate's thesis. Thus the author has tried to reconcile the two approaches, presenting a self-contained exposition of the classical standpoint in the first four chapters and then turning to local methods. In the first chapter we present the necessary tools from the theory of Dedekind domains and valuation theory, including the structure of finitely generated modules over Dedekind domains. In Chapters 2, 3, and 4, the classical theory of algebraic numbers is developed. Chapter 5 contains the fundamental notions of the theory of p -adic fields, and Chapter 6 brings their applications to the study of algebraic number fields. We include here Shafarevich's proof of the Kronecker-Weber theorem and also the main properties of adèles and ideles.

Emil Artin and Helmut Hasse Günther Frei, Franz Lemmermeyer, Peter J. Roquette, 2014-01-16 This volume consists of the English translations of the letters exchanged between Emil Artin to Helmut Hasse, written from 1921 until 1958. The letters are accompanied by extensive comments explaining the mathematical background and giving the information needed for understanding these letters. Most letters deal with class field theory and shed a light on the birth of one of its most profound results: Artin's reciprocity law.

Selected Areas in Cryptography Howard Heys, Carlisle Adams, 2003-05-15 This book constitutes the thoroughly refereed post-workshop proceedings of the 6th Annual International Workshop on Selected Areas in Cryptography SAC 99 held in Kingston, Ontario, Canada, in August 1999. The 17 revised full papers presented went through two rounds of reviewing and revision and were selected from 29 submissions. The papers are organized in sections on cryptosystems and pseudorandom number generators, security aspects of block ciphers, cryptanalysis of block ciphers, efficient implementations of cryptosystems, and cryptography for network applications.

Non-Unique Factorizations Alfred Geroldinger, Franz Halter-Koch, 2006-01-13 From its origins in algebraic number theory, the theory of non-unique factorizations has emerged as an independent branch of algebra and number theory. Focused efforts over the past few decades have wrought a great number and variety of results. However, these remain dispersed throughout the vast literature. For the first time, *Non-Unique Factorization*

Computational Algebra and Number Theory Wieb Bosma, Alf van der Poorten, 2013-03-09 Computers have stretched the limits of what is possible in mathematics. More, they have given rise to new fields of mathematical study: the analysis of new and traditional algorithms, the creation of new paradigms for implementing computational methods, the viewing of old techniques from a concrete algorithmic vantage point, to name but a few. *Computational Algebra and Number Theory* lies at the lively intersection of computer science and mathematics. It highlights the surprising width and depth of the field through examples drawn from current activity, ranging from category theory, graph theory, and combinatorics to more

classical computational areas such as group theory and number theory Many of the papers in the book provide a survey of their topic as well as a description of present research Throughout the variety of mathematical and computational fields represented the emphasis is placed on the common principles and the methods employed Audience Students experts and those performing current research in any of the topics mentioned above

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 Mathématiques

Elliptic Curves Susanne Schmitt, Horst G. Zimmer, 2008-08-22 The basics of the theory of elliptic curves should be known to everybody be he or she a mathematician or a computer scientist Especially everybody concerned with cryptography should know the elements of this theory The purpose of the present textbook is to give an elementary introduction to elliptic curves Since this branch of number theory is particularly accessible to computer assisted calculations the authors make use of it by approaching the theory under a computational point of view Specifically the computer algebra package SIMATH can be applied on several occasions However the book can be read also by those not interested in any computations Of course the theory of elliptic curves is very comprehensive and becomes correspondingly sophisticated That is why the authors made a choice of the topics treated Topics covered include the determination of torsion groups computations regarding the Mordell-Weil group height calculations S -integral points The contents is kept as elementary as possible In this way it becomes obvious in which respect the book differs from the numerous textbooks on elliptic curves nowadays available

Modular Forms and Special Cycles on Shimura Curves Stephen S. Kudla, Michael Rapoport, Tonghai Yang, 2006-04-04 Modular Forms and Special Cycles on Shimura Curves is a thorough study of the generating functions constructed from special cycles both divisors and zero cycles on the arithmetic surface M attached to a Shimura curve M over the field of rational numbers These generating functions are shown to be the q -expansions of modular

forms and Siegel modular forms of genus two respectively valued in the Gillet Soul arithmetic Chow groups of M The two types of generating functions are related via an arithmetic inner product formula In addition an analogue of the classical Siegel Weil formula identifies the generating function for zero cycles as the central derivative of a Siegel Eisenstein series As an application an arithmetic analogue of the Shimura Waldspurger correspondence is constructed carrying holomorphic cusp forms of weight $3/2$ to classes in the Mordell Weil group of M In certain cases the nonvanishing of this correspondence is related to the central derivative of the standard L function for a modular form of weight 2 These results depend on a novel mixture of modular forms and arithmetic geometry and should provide a paradigm for further investigations The proofs involve a wide range of techniques including arithmetic intersection theory the arithmetic adjunction formula representation densities of quadratic forms deformation theory of p divisible groups p adic uniformization the Weil representation the local and global theta correspondence and the doubling integral representation of L functions

Algorithmic Number Theory

Henri Cohen, 1996-08-07 This book constitutes the refereed post conference proceedings of the Second International Algorithmic Number Theory Symposium ANTS II held in Talence France in May 1996 The 35 revised full papers included in the book were selected from a variety of submissions They cover a broad spectrum of topics and report state of the art research results in computational number theory and complexity theory Among the issues addressed are number fields computation Abelian varieties factoring algorithms finite fields elliptic curves algorithm complexity lattice theory and coding

Trends in Number Theory Fernando Chamizo, Jordi Guàrdia, Antonio Rojas-León, José María Tornero, 2015-09-28 This volume contains the proceedings of the Fifth Spanish Meeting on Number Theory held from July 8-12 2013 at the Universidad de Sevilla Sevilla Spain The articles contained in this book give a panoramic vision of the current research in number theory both in Spain and abroad Some of the topics covered in this volume are classical algebraic number theory arithmetic geometry and analytic number theory This book is published in cooperation with Real Sociedad Matemática Española RSME

Public Key Cryptography Hideki Imai, Yuliang Zheng, 2004-03-23 This book constitutes the refereed proceedings of the Third International Workshop on Practice and Theory in Public Key Cryptography PKC 2000 held in Melbourne Victoria Australia in January 2000 The 31 revised full papers presented were carefully reviewed and selected from 70 submissions Among the topics addressed are cryptographic protocols digital signature schemes elliptic curve cryptography discrete logarithm authentication encryption protocols key recovery time stamping shared cryptography certification zero knowledge proofs auction protocols and mobile communications security

Finite Fields and Applications

Dieter Jungnickel, H. Niederreiter, 2001-03-20 This volume represents the refereed proceedings of the Fifth International Conference on Finite Fields and Applications Fq5 held at the University of Augsburg Germany from August 2-6 1999 and hosted by the Department of Mathematics The conference continued a series of biennial international conferences on finite fields following earlier conferences at the University of Nevada at Las Vegas USA in August 1991 and August 1993 the

University of Glasgow Scotland in July 1995 and the University of Waterloo Canada in August 1997 The Organizing Committee of F q5 comprised Thomas Beth University of Karlsruhe Stephen D Cohen University of Glasgow Dieter Jungnickel University of Augsburg Chairman Alfred Menezes University of Waterloo Gary L Mullen Pennsylvania State University Ronald C Mullin University of Waterloo Harald Niederreiter Austrian Academy of Sciences and Alexander Pott University of Magdeburg The program of the conference consisted of four full days and one half day of sessions with 11 invited plenary talks

and over 80 contributed talks that required three parallel sessions This documents the steadily increasing interest in finite fields and their applications Finite fields have an inherently fascinating structure and they are important tools in discrete mathematics Their applications range from combinatorial design theory finite geometries and algebraic geometry to coding theory cryptology and scientific computing A particularly fruitful aspect is the interplay between theory and applications which has led to many new perspectives in research on finite fields

The Decomposition of Primes in Torsion Point

Fields Clemens Adelmann, 2004-10-11 It is an historical goal of algebraic number theory to relate all algebraic extensions of a number field in a unique way to structures that are exclusively described in terms of the base field Suitable structures are the prime ideals of the ring of integers of the considered number field By examining the behaviour of the prime ideals when embedded in the extension field sufficient information should be collected to distinguish the given extension from all other possible extensions The ring of integers O of an algebraic number field k is a Dedekind ring k Any non zero ideal in O possesses therefore a decomposition into a product \mathfrak{a} of prime ideals in O which is unique up to permutations of the factors This \mathfrak{a} decomposition generalizes the prime factor decomposition of numbers in \mathbb{Z} \mathbb{Z} In order to keep the uniqueness of the factors view has to be changed from elements of O to ideals of O k k Given an extension K k of algebraic number fields and a prime ideal \mathfrak{p} of O the decomposition law of K k describes the product decomposition of \mathfrak{a} the ideal generated by \mathfrak{p} in O and names its characteristic quantities i e K the number of different prime ideal factors their respective inertial degrees and their respective ramification indices When looking at decomposition laws we should initially restrict ourselves to Galois extensions This special case already offers quite a few difficulties

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