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Cohomology of Number Fields

Second Edition

 Springer

Cohomology Of Number Fields Cohomology Of Number Fields

**Jürgen Neukirch,Alexander
Schmidt,Kay Wingberg**



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Cohomology of Number Fields Jürgen Neukirch, Alexander Schmidt, Kay Wingberg, 2013-09-26 This second edition is a corrected and extended version of the first It is a textbook for students as well as a reference book for the working mathematician on cohomological topics in number theory In all it is a virtually complete treatment of a vast array of central topics in algebraic number theory New material is introduced here on duality theorems for unramified and tamely ramified extensions as well as a careful analysis of 2 extensions of real number fields [Galois Cohomology of Algebraic Number Fields](#) Klaus Haberland, Helmut Koch, Thomas Zink, 1978 **Cohomology of Number Fields** Jürgen Neukirch, Alexander Schmidt, Kay Wingberg, 2020 **Galois cohomology of algebraic number fields** Klaus Haberland, 1978 **Cohomology of Number Fields** Jürgen Neukirch, Alexander Schmidt, Kay Wingberg, 2013-11-27 This second edition is a corrected and extended version of the first It is a textbook for students as well as a reference book for the working mathematician on cohomological topics in number theory In all it is a virtually complete treatment of a vast array of central topics in algebraic number theory New material is introduced here on duality theorems for unramified and tamely ramified extensions as well as a careful analysis of 2 extensions of real number fields [Massey Products in the Galois Cohomology of Number Fields](#) Denis Vogel, 2004 [Handbook of K-Theory](#) Eric Friedlander, Daniel R. Grayson, 2005-07-18 This handbook offers a compilation of techniques and results in K theory Each chapter is dedicated to a specific topic and is written by a leading expert Many chapters present historical background some present previously unpublished results whereas some present the first expository account of a topic many discuss future directions as well as open problems It offers an exposition of our current state of knowledge as well as an implicit blueprint for future research **The Abel Prize 2008-2012** Helge Holden, Ragni Piene, 2014-01-21 Covering the years 2008 2012 this book profiles the life and work of recent winners of the Abel Prize John G Thompson and Jacques Tits 2008 Mikhail Gromov 2009 John T Tate Jr 2010 John W Milnor 2011 Endre Szemerédi 2012 The profiles feature autobiographical information as well as a description of each mathematician's work In addition each profile contains a complete bibliography a curriculum vitae as well as photos old and new As an added feature interviews with the Laureates are presented on an accompanying web site <http://extras.springer.com> The book also presents a history of the Abel Prize written by the historian Kim Helsen and includes a facsimile of a letter from Niels Henrik Abel which is transcribed translated into English and placed into historical perspective by Christian Skau This book follows on The Abel Prize 2003 2007 The First Five Years Springer 2010 which profiles the work of the first Abel Prize winners [Abelian Galois Cohomology of Reductive Groups](#) Mikhail Borovoi, 1998 In this volume a new function $H^2_{\text{ab}}(K, G)$ of abelian Galois cohomology is introduced from the category of connected reductive groups G over a field K of characteristic 0 to the category of abelian groups The abelian Galois cohomology and the abelianization map $\text{ab}_1: H^1(K, G) \rightarrow H^2_{\text{ab}}(K, G)$ are used to give a functorial almost explicit description of the usual Galois cohomology set $H^1(K, G)$ when K is a number field **Class Field**

Theory Georges Gras, 2005-02-16 Global class field theory is a major achievement of algebraic number theory based on the functorial properties of the reciprocity map and the existence theorem This book explores the consequences and the practical use of these results in detailed studies and illustrations of classical subjects In the corrected second printing 2005 the author improves many details all through the book *Galois Cohomology and Number Field Counting* Brandon Alberts, 2018 Arithmetic Statistics is the study of how arithmetic objects are distributed One of the most popular examples in this subject are number field counting problems Initially discussed by Cohen Lenstra and Malle there are now a variety of conjectural heuristics and solutions describing the distribution of number fields with prescribed Galois group local behavior degree etc when ordered by their discriminant Despite the wealth of computational and theoretical evidence very few cases have been proven This dissertation details the author's work on proving new cases of a few number field counting problems Namely we prove some new cases of Wood's nonabelian Cohen Lenstra heuristics and set the stage to prove more and we prove new upper bounds for the weak form of Malle's conjecture which agree with Malle's predicted bounds conditional on the conjectural growth of ell torsion in class groups of number fields with fixed degree , *Class Field Theory* Emil Artin, John Torrence Tate, 1968 This classic book originally published in 1968 is based on notes of a year long seminar the authors ran at Princeton University The primary goal of the book was to give a rather complete presentation of algebraic aspects of global class field theory In this revised edition two mathematical additions complementing the exposition of the original text are made The new edition also contains several new footnotes additional references and historical comments

Huygens and Barrow, Newton and Hooke Vladimir I. Arnold, 1990-07-01 Translated from the Russian by E J F Primrose Remarkable little book SIAM REVIEW V I Arnold who is renowned for his lively style retraces the beginnings of mathematical analysis and theoretical physics in the works and the intrigues of the great scientists of the 17th century Some of Huygens and Newton's ideas several centuries ahead of their time were developed only recently The author follows the link between their inception and the breakthroughs in contemporary mathematics and physics The book provides present day generalizations of Newton's theorems on the elliptical shape of orbits and on the transcendence of abelian integrals it offers a brief review of the theory of regular and chaotic movement in celestial mechanics including the problem of ports in the distribution of smaller planets and a discussion of the structure of planetary rings *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 Table of Contents Introduction General comments on references Examples of basic arithmetic groups General arithmetic subgroups and locally symmetric spaces Discrete subgroups of Lie groups and arithmeticity of lattices in Lie groups Different completions of \mathbb{Q} and \mathbb{S} arithmetic groups over number fields Global fields and \mathbb{S} arithmetic groups over function fields Finiteness properties of arithmetic and \mathbb{S} arithmetic groups Symmetric spaces Bruhat Tits buildings and their arithmetic quotients Compactifications of locally symmetric spaces Rigidity of locally symmetric spaces Automorphic forms and automorphic representations for general arithmetic groups Cohomology of arithmetic groups K groups of rings of integers and K groups of group rings Locally homogeneous manifolds and period domains Non cofinite discrete groups 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 **Collected**

Papers Armand Borel, 1983 This book collects the papers published by A Borel from 1983 to 1999 About half of them are research papers written on his own or in collaboration on various topics pertaining mainly to algebraic or Lie groups homogeneous spaces arithmetic groups L^2 spectrum automorphic forms cohomology and covolumes L^2 cohomology of symmetric or locally symmetric spaces and to the Oppenheim conjecture Other publications include surveys and personal recollections of D Montgomery Harish Chandra and A Weil considerations on mathematics in general and several articles of a historical nature on the School of Mathematics at the Institute for Advanced Study on N Bourbaki and on selected aspects of the works of H Weyl C Chevalley E Kolchin J Leray and A Weil The book concludes with an essay on H Poincaré and special relativity Some comments on and corrections to a number of papers have also been added **The Grothendieck**

Festschrift, Volume I Pierre Cartier, Luc Illusie, Nicholas M. Katz, Gérard Laumon, Yuri I. Manin, Kenneth A.

Ribet, 2006-12-22 This three volume work contains articles collected on the occasion of Alexander Grothendieck s sixtieth birthday and originally published in 1990 The articles were offered as a tribute to one of the world s greatest living mathematicians Many of the groundbreaking contributions in these volumes contain material that is now considered foundational to the subject Topics addressed by these top notch contributors match the breadth of Grothendieck s own interests including functional analysis algebraic geometry algebraic topology number theory representation theory K theory category theory and homological algebra **Encyclopaedia of Mathematics** Michiel Hazewinkel, 2012-12-06 This is the

second supplementary volume to Kluwer s highly acclaimed eleven volume Encyclopaedia of Mathematics This additional volume contains nearly 500 new entries written by experts and covers developments and topics not included in the previous

volumes These entries are arranged alphabetically throughout and a detailed index is included This supplementary volume enhances the existing eleven volumes and together these twelve volumes represent the most authoritative comprehensive and up to date Encyclopaedia of Mathematics available *Tate Duality in Positive Dimension over Function Fields* Zev Rosengarten, 2023-11-27 View the abstract **Automorphic Forms and L-functions I** David Ginzburg, Erez Lapid, David Soudry, 2009 Includes articles that represent global aspects of automorphic forms This book covers topics such as the trace formula functoriality representations of reductive groups over local fields the relative trace formula and periods of automorphic forms Rankin Selberg convolutions and L functions and p adic L functions

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