

PROFINITE GROUPS,
ARITHMETIC, AND GEOMETRY

BY

STEPHEN S. SHATZ

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Profinite Groups Arithmetic And Geometry

Jin-Ying Zhang



Profinite Groups Arithmetic And Geometry:

Profinite Groups, Arithmetic, and Geometry Stephen S. Shatz, 2016-03-02 In this volume the author covers profinite groups and their cohomology Galois cohomology and local class field theory and concludes with a treatment of duality His objective is to present effectively that body of material upon which all modern research in Diophantine geometry and higher arithmetic is based and to do so in a manner that emphasizes the many interesting lines of inquiry leading from these foundations

Profinite Groups Luis Ribes, Pavel Zalesskii, 2010-03-10 The aim of this book is to serve both as an introduction to profinite groups and as a reference for specialists in some areas of the theory The book is reasonably self contained Profinite groups are Galois groups As such they are of interest in algebraic number theory Much of recent research on abstract infinite groups is related to profinite groups because residually finite groups are naturally embedded in a profinite group In addition to basic facts about general profinite groups the book emphasizes free constructions particularly free profinite groups and the structure of their subgroups Homology and cohomology is described with a minimum of prerequisites This second edition contains three new appendices dealing with a new characterization of free profinite groups presentations of pro p groups and a new conceptually simpler approach to the proof of some classical subgroup theorems Throughout the text there are additions in the form of new results improved proofs typographical corrections and an enlarged bibliography The list of open questions has been updated comments and references have been added about those previously open problems that have been solved after the first edition appeared

Profinite Groups Luis Ribes, Pavel Zalesskii, 2014-01-15

The Brauer-Grothendieck Group Jean-Louis Colliot-Thélène, Alexei N. Skorobogatov, 2021-07-30 This monograph provides a systematic treatment of the Brauer group of schemes from the foundational work of Grothendieck to recent applications in arithmetic and algebraic geometry The importance of the cohomological Brauer group for applications to Diophantine equations and algebraic geometry was discovered soon after this group was introduced by Grothendieck The Brauer Manin obstruction plays a crucial role in the study of rational points on varieties over global fields The birational invariance of the Brauer group was recently used in a novel way to establish the irrationality of many new classes of algebraic varieties The book covers the vast theory underpinning these and other applications Intended as an introduction to cohomological methods in algebraic geometry most of the book is accessible to readers with a knowledge of algebra algebraic geometry and algebraic number theory at graduate level Much of the more advanced material is not readily available in book form elsewhere notably de Jong s proof of Gabber s theorem the specialisation method and applications of the Brauer group to rationality questions an in depth study of the Brauer Manin obstruction and proof of the finiteness theorem for the Brauer group of abelian varieties and K3 surfaces over finitely generated fields The book surveys recent work but also gives detailed proofs of basic theorems maintaining a balance between general theory and concrete examples Over half a century after Grothendieck s foundational seminars on the topic *The Brauer Grothendieck Group* is a treatise that

fills a longstanding gap in the literature providing researchers including research students with a valuable reference on a central object of algebraic and arithmetic geometry

On Pro-finite Groups and on Discrete Logarithms Oliver Arno Schirokauer, 1992

Profinite Groups John S. Wilson, 1998-10-01 This is the first book to be dedicated entirely to profinite groups an area of algebra with important links to number theory and other areas of mathematics It provides a comprehensive overview of the subject prerequisite knowledge is kept to a minimum and several major theorems are presented in an accessible form The book would provide a valuable introduction for postgraduate students or form a useful reference for researchers in other areas The first few chapters lay the foundations and explain the role of profinite groups in number theory Later chapters explore various aspects of profinite groups in more detail these contain accessible and lucid accounts of many major theorems Prerequisites are kept to a minimum with the basic topological theory summarized in an introductory chapter

Arithmetic Fundamental Groups and Noncommutative Algebra Michael D. Fried, Yasutaka Ihara, 2002 The arithmetic and geometry of moduli spaces and their fundamental groups are a very active research area This book offers a complete overview of developments made over the last decade The papers in this volume examine the geometry of moduli spaces of curves with a function on them The main players in Part 1 are the absolute Galois group $G_{\mathbb{Q}}$ of the algebraic numbers and its close relatives By analyzing how $G_{\mathbb{Q}}$ acts on fundamental groups defined by Hurwitz moduli problems the authors achieve a grand generalization of Serre's program from the 1960s Papers in Part 2 apply theta functions and configuration spaces to the study of fundamental groups over positive characteristic fields In this section several authors use Grothendieck's famous lifting results to give extensions to wildly ramified covers Properties of the fundamental groups have brought collaborations between geometers and group theorists Several Part 3 papers investigate new versions of the genus 0 problem In particular this includes results severely limiting possible monodromy groups of sphere covers Finally Part 4 papers treat Deligne's theory of Tannakian categories and arithmetic versions of the Kodaira Spencer map This volume is geared toward graduate students and research mathematicians interested in arithmetic algebraic geometry

Generators and Relations in Groups and Geometries A. Barlotti, 1991-02-28 Every group is represented in many ways as an epimorphic image of a free group It seems therefore futile to search for methods involving generators and relations which can be used to detect the structure of a group Nevertheless results in the indicated direction exist The clue is to ask the right question Classical geometry is a typical example in which the factorization of a motion into reflections or more generally of a collineation into central collineations supplies valuable information on the geometric and algebraic structure This mode of investigation has gained momentum since the end of last century The tradition of geometric algebraic interplay brought forward two branches of research which are documented in Parts I and II of these Proceedings Part II deals with the theory of reflection geometry which culminated in Bachmann's work where the geometric information is encoded in properties of the group of motions expressed by relations in the generating involutions This approach is the

backbone of the classification of motion groups for the classical unitary and orthogonal planes The axioms in this characterization are natural and plausible They provoke the study of consequences of subsets of axioms which also yield natural geometries whose exploration is rewarding Bachmann's central axiom is the three reflection theorem showing that the number of reflections needed to express a motion is of great importance

Arithmetic Duality Theorems J. S. Milne, 1986 Chapter 2 focuses on the work of Artin and Verdier who reinterpreted and developed Tate's ideas in the framework of étale cohomology some of the more recent developments in this area are also covered

Win-- Women in Numbers Alina Carmen Cojocaru, 2011-01-01 This volume is a collection of papers on number theory which evolved out of the workshop WIN Women in Numbers held November 2nd-7th 2008 in Alberta Canada The book includes articles showcasing outcomes from collaborative research initiated during the workshop

Words Dan Segal, 2009-07-16 Explores fundamental questions about the behaviour of word values in groups

The Journal of Symbolic Logic Alonzo Church, Cooper Harold Langford, 1981 Includes lists of members

The Mathematical and Philosophical Legacy of Alexander Grothendieck Marco Panza, Daniele C. Struppa, Jean-Jacques Szczeciniarz, 2025-01-21 Alexander Grothendieck is often considered one of the greatest mathematicians of the twentieth century if not all time and his unique vision continues to impact and inspire many fields and researchers today Utilizing a multidisciplinary approach this edited volume explores the profound influence his work and ideas have had not only on mathematics but also on logic and philosophy Chapters are written by international scholars and many were inspired by talks given at the conference Grothendieck A Multifarious Giant at Chapman University May 24-28 2022 Some chapters are written from a historical perspective and discuss the development of the main themes that characterized Grothendieck's work Others are more mathematical in nature analyzing and extending some of his more relevant and obscure results that are still not well understood Philosophical implications and applications in logic are the subjects of other chapters This volume will be of interest not only to mathematicians working in algebraic geometry category theory and other areas to which Grothendieck contributed but also to philosophers logicians and historians of science

Resolution of Singularities Herwig Hauser, Joseph Lipman, Frans Oort, Adolfo Quirós, 2000-02-14 In September 1997 the Working Week on Resolution of Singularities was held at Obergurgl in the Tyrolean Alps Its objective was to manifest the state of the art in the field and to formulate major questions for future research The four courses given during this week were written up by the speakers and make up part I of this volume They are complemented in part II by fifteen selected contributions on specific topics and resolution theories The volume is intended to provide a broad and accessible introduction to resolution of singularities leading the reader directly to concrete research problems

Pacific Journal of Mathematics, 1980

The American Mathematical Monthly, 1971

New Technical Books New York Public Library, 1972

The Publishers' Trade List Annual, 1985

Field Arithmetic Michael D. Fried, Moshe Jarden, 2013-04-17 Field Arithmetic explores Diophantine fields through their absolute Galois groups This largely self-contained treatment starts with techniques

from algebraic geometry number theory and profinite groups Graduate students can effectively learn generalizations of finite field ideas We use Haar measure on the absolute Galois group to replace counting arguments New Chebotarev density variants interpret diophantine properties Here we have the only complete treatment of Galois stratifications used by Denef and Loeser et al to study Chow motives of Diophantine statements Progress from the first edition starts by characterizing the finite field like Pseudo Algebraically Closed fields We once believed PAC fields were rare Now we know they include valuable Galois extensions of the rationals that present its absolute Galois group through known groups PAC fields have projective absolute Galois group Those that are Hilbertian are characterized by this group being pro free These last decade results are tools for studying fields by their relation to those with projective absolute group There are still mysterious problems to guide a new generation Is the solvable closure of the rationals PAC and do projective Hilbertian fields have pro free absolute Galois group includes Shafarevich's conjecture **American Scientist** ,1942

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