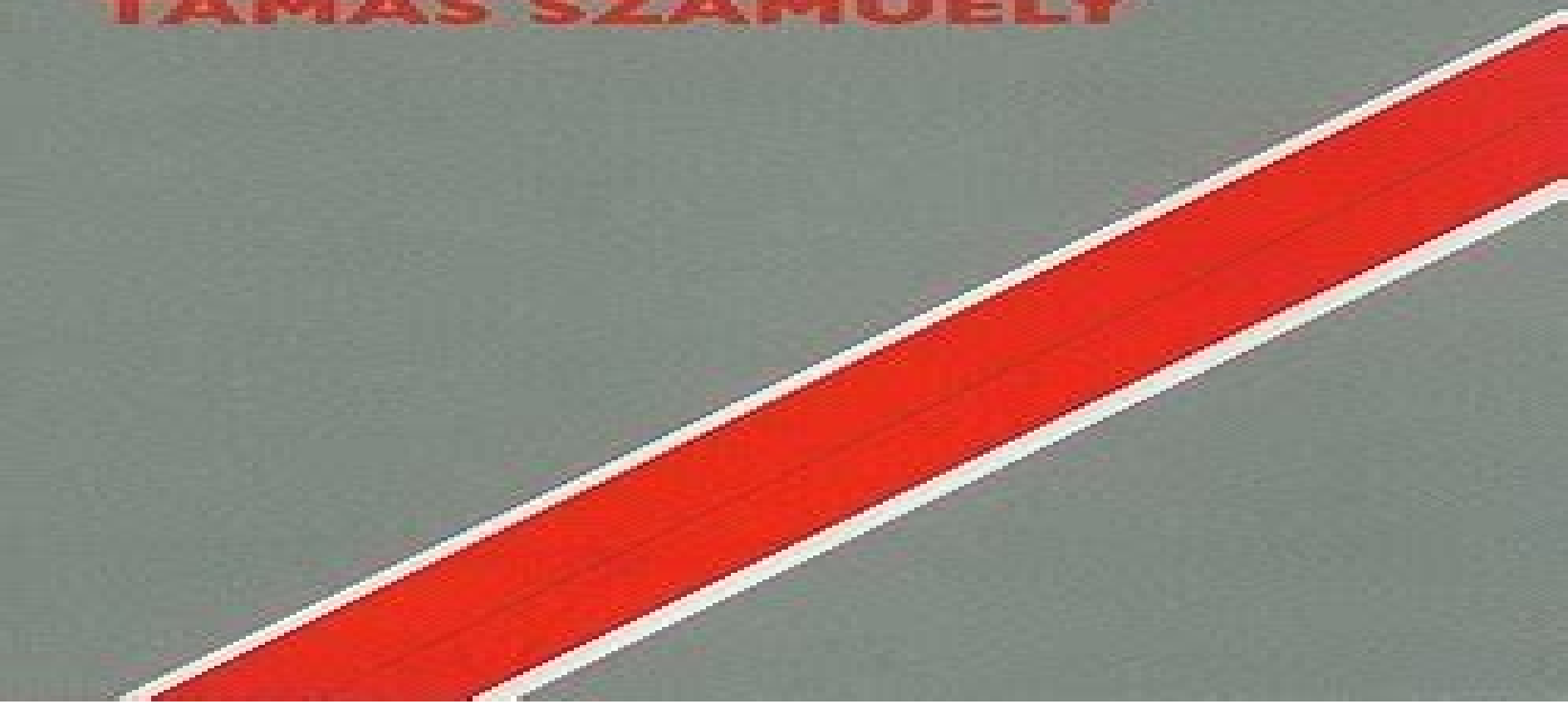


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# **Galois Groups and Fundamental Groups**

**TAMÁS SZAMUELY**



# Galois Groups And Fundamental Groups

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## **Galois Groups And Fundamental Groups:**

**Galois Groups and Fundamental Groups** Tamás Szamuely, 2009-07-16 Assuming little technical background the author presents the strong analogies between these two concepts starting at an elementary level

**Galois Groups and Fundamental Groups** Leila Schneps, 2003-07-21 Table of contents

**Galois Groups and Fundamental Groups on Riemann Surfaces** Matthias Himmelmann, 2018-10-17 Bachelor Thesis from the year 2018 in the subject Mathematics Algebra grade 1 0 Free University of Berlin Mathematik language English abstract This thesis deals with the correlation of the fundamental group and the Galois group using their corresponding entities of covering spaces and field extensions First it is viewed in the general setting of categories using the language of Galois categories It is shown that the categories of the finite tale algebras and the category of covering spaces are correlated which gives the fact that the profinite completion of the fundamental group and the absolute Galois group are similar More specifically on Riemann surfaces it is shown that there exists an anti equivalence of categories between the finite field extensions of the meromorphic functions of a compact connected Riemann Surface  $X$  and the category of branched coverings of  $X$  A more explicit theorem that provides an isomorphism between a specific Galois Group and the profinite Completion of the Fundamental Group of a pointed  $X$  gives more insight on the behaviour of these two groups

**Galois Groups and Fundamental Groups** Tamás

Szamuely, 2012-11-01 This book presents the connection between Galois groups in algebra and fundamental groups in topology Starting at an elementary level it shows how the judicious use of algebraic geometry gives access to the powerful interplay between algebra and topology that underpins much modern research in geometry and number theory

*Non-abelian Fundamental Groups and Iwasawa Theory* John Coates, Minhyong Kim, Florian Pop, Mohamed Saïdi, Peter Schneider, 2011-12-15 Number theory currently has at least three different perspectives on non abelian phenomena the Langlands programme non commutative Iwasawa theory and anabelian geometry In the second half of 2009 experts from each of these three areas gathered at the Isaac Newton Institute in Cambridge to explain the latest advances in their research and to investigate possible avenues of future investigation and collaboration For those in attendance the overwhelming impression was that number theory is going through a tumultuous period of theory building and experimentation analogous to the late 19th century when many different special reciprocity laws of abelian class field theory were formulated before knowledge of the Artin Takagi theory Non abelian Fundamental Groups and Iwasawa Theory presents the state of the art in theorems conjectures and speculations that point the way towards a new synthesis an as yet undiscovered unified theory of non abelian arithmetic geometry

**The Arithmetic of Fundamental Groups** Jakob Stix, 2012-01-10 In the more than 100 years since the fundamental group was first introduced by Henri Poincaré it has evolved to play an important role in different areas of mathematics Originally conceived as part of algebraic topology this essential concept and its analogies have found numerous applications in mathematics that are still being investigated today and which

are explored in this volume the result of a meeting at Heidelberg University that brought together mathematicians who use or study fundamental groups in their work with an eye towards applications in arithmetic The book acknowledges the varied incarnations of the fundamental group pro finite l adic p adic pro algebraic and motivic It explores a wealth of topics that range from anabelian geometry in particular the section conjecture the l adic polylogarithm gonality questions of modular curves vector bundles in connection with monodromy and relative pro algebraic completions to a motivic version of Minhyong Kim's non abelian Chabauty method and p adic integration after Coleman The editor has also included the abstracts of all the talks given at the Heidelberg meeting as well as the notes on Coleman integration and on Grothendieck's fundamental group with a view towards anabelian geometry taken from a series of introductory lectures given by Amnon Besser and Tamás Szamuely respectively

**Galois Groups and Fundamental Groups**, 1997 *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

Galois Groups and Fundamental Groups Mathematisches Forschungsinstitut, 1997

**Cohomology of Arithmetic Groups** James W. Cogdell, Günter Harder, Stephen Kudla, Freydoon Shahidi, 2018-08-18 This book discusses the mathematical interests of Joachim Schwermer who throughout his career has focused on the cohomology of arithmetic groups automorphic forms and the geometry of arithmetic manifolds To mark his 66th birthday the editors brought together mathematical experts to offer an overview of the current state of research in these and related areas The result is this book with contributions ranging from topology to arithmetic It probes the relation between cohomology of arithmetic groups and automorphic forms and their L functions and spans the range from classical Bianchi groups to the theory of Shimura varieties It is a valuable reference for both experts in the fields and for graduate students and postdocs wanting to discover where the current frontiers lie

Langlands Correspondence for Loop Groups Edward Frenkel, 2007-06-28 The first account of local geometric Langlands Correspondence

a new area of mathematical physics developed by the author      **Linear Algebraic Groups and Finite Groups of Lie Type** Gunter Malle, Donna Testerman, 2011-09-08 Originating from a summer school taught by the authors this concise treatment includes many of the main results in the area An introductory chapter describes the fundamental results on linear algebraic groups culminating in the classification of semisimple groups The second chapter introduces more specialized topics in the subgroup structure of semisimple groups and describes the classification of the maximal subgroups of the simple algebraic groups The authors then systematically develop the subgroup structure of finite groups of Lie type as a consequence of the structural results on algebraic groups This approach will help students to understand the relationship between these two classes of groups The book covers many topics that are central to the subject but missing from existing textbooks The authors provide numerous instructive exercises and examples for those who are learning the subject as well as more advanced topics for research students working in related areas      *Current Developments in Algebraic Geometry* Lucia Caporaso, 2012-03-19 This volume based on a workshop by the MSRI offers an overview of the state of the art in many areas of algebraic geometry      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

**Moduli Spaces of Riemann Surfaces** Benson Farb, Richard Hain, Eduard Looijenga, 2013-08-16 Mapping class groups and moduli spaces of Riemann surfaces were the topics of the Graduate Summer School at the 2011 IAS Park City Mathematics Institute This book presents the nine different lecture series comprising the summer school covering a selection of topics of current interest The introductory courses treat mapping class groups and Teichmüller theory The more advanced courses cover intersection theory on moduli spaces the dynamics of polygonal billiards and moduli spaces the stable cohomology of mapping class groups the structure of Torelli groups and arithmetic mapping class groups The courses consist of a set of intensive short lectures offered by leaders in the field designed to introduce students to exciting current research in mathematics These lectures do not duplicate standard courses available elsewhere The book should be a valuable resource for graduate students and researchers interested in the topology geometry and dynamics of moduli spaces of Riemann surfaces and related topics Titles in this series are co published with the Institute for Advanced Study Park City Mathematics Institute Members of the Mathematical Association of America MAA and the National Council of Teachers of Mathematics NCTM receive a 20% discount from list price      **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

*Problems on Mapping Class Groups and Related Topics* Benson Farb, 2006-09-12 The appearance of mapping class groups in mathematics is ubiquitous The book presents 23 papers containing problems about mapping class groups the moduli space of Riemann surfaces Teichmüller geometry and related areas Each paper focusses completely on open problems and directions The problems range in scope from specific computations to broad programs The goal is to have a rich source of problems which have been formulated explicitly and accessibly The book is divided into four parts Part I contains problems on the combinatorial and cohomological group theoretic aspects of mapping class groups and the way in which these relate to problems in geometry and topology Part II concentrates on connections with classification problems in 3-manifold theory the theory of symplectic 4-manifolds and algebraic geometry A wide variety of problems from understanding billiard trajectories to the classification of Kleinian groups can be reduced to differential and synthetic geometry problems about moduli space Such problems and connections are discussed in Part III Mapping class groups are related both concretely and philosophically to a number of other groups such as braid groups lattices in semisimple Lie groups and automorphism groups of free groups Part IV concentrates on problems surrounding these relationships This book should be of interest to anyone studying geometry topology algebraic geometry or infinite groups It is meant to provide inspiration for everyone from graduate students to senior researchers

**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

**Handbook of Teichmüller Theory** Athanase Papadopoulos, 2007 This multi-volume set deals with Teichmüller theory in the broadest sense namely as the study of moduli space of geometric structures on surfaces with methods inspired or adapted from those of classical Teichmüller theory The aim is to give a complete panorama of this generalized Teichmüller theory and of its applications in various fields of mathematics The volumes consist of chapters each of which is dedicated to a specific topic The volume has 19 chapters and is divided into four parts The metric and the analytic theory uniformization Weil-Petersson geometry holomorphic families of Riemann surfaces infinite dimensional Teichmüller spaces cohomology of

moduli space and the intersection theory of moduli space The group theory quasi homomorphisms of mapping class groups measurable rigidity of mapping class groups applications to Lefschetz fibrations affine groups of flat surfaces braid groups and Artin groups Representation spaces and geometric structures trace coordinates invariant theory complex projective structures circle packings and moduli spaces of Lorentz manifolds homeomorphic to the product of a surface with the real line The Grothendieck Teichmuller theory dessins d'enfants Grothendieck's reconstruction principle and the Teichmuller theory of the solenoid This handbook is an essential reference for graduate students and researchers interested in Teichmuller theory and its ramifications in particular for mathematicians working in topology geometry algebraic geometry dynamical systems and complex analysis The authors are leading experts in the field

Profinite Graphs and Groups Luis Ribes, 2017-08-23 This book offers a detailed introduction to graph theoretic methods in profinite groups and applications to abstract groups It is the first to provide a comprehensive treatment of the subject The author begins by carefully developing relevant notions in topology profinite groups and homology including free products of profinite groups cohomological methods in profinite groups and fixed points of automorphisms of free pro  $p$  groups The final part of the book is dedicated to applications of the profinite theory to abstract groups with sections on finitely generated subgroups of free groups separability conditions in free and amalgamated products and algorithms in free groups and finite monoids Profinite Graphs and Groups will appeal to students and researchers interested in profinite groups geometric group theory graphs and connections with the theory of formal languages A complete reference on the subject the book includes historical and bibliographical notes as well as a discussion of open questions and suggestions for further reading

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