

GALOIS EMBEDDING PROBLEMS WITH CYCLIC QUOTIENT OF ORDER p

JÁN MINÁČ^{*,†} AND JOHN SWALLOW[‡]

ABSTRACT. Let K/F be a cyclic field extension of odd prime degree. We consider Galois embedding problems involving Galois groups with common quotient $\text{Gal}(K/F)$ such that corresponding normal subgroups are indecomposable $\mathbb{F}_p[\text{Gal}(K/F)]$ -modules. For these embedding problems we prove conditions on solvability, formulas for explicit construction, and results on automatic realizability.

INTRODUCTION

Let $p > 2$ be a prime, and suppose that K/F is a cyclic field extension of degree p . In this paper we consider Galois embedding problems involving Kummer extensions of K of degree p^n that are Galois over F , and we establish new automatic realizability results, whereby the solvability of one Galois embedding problem implies the solvability of another. (See e. g. [GSS, Section 5] for some automatic realizations of 2-groups as Galois groups.) We restrict ourselves to the case $p > 2$ because the case $p = 2$ is quite simple and does not lead to new results.

We focus particularly on the case when F contains a primitive p th root of unity. In fact, this paper is a continuation of [MS] wherein, under this hypothesis, we classified $\mathbb{F}_p[\text{Gal}(K/F)]$ -modules K^*/K^{**} using arithmetic invariants attached to K/F , and the investigations there were motivated by the embedding problems solved in this paper. When F is not of this type, we employ a descent argument in the case

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Embedding Problems And Galois Modules

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Embedding Problems And Galois Modules:

Embedding Problems and Galois Modules Jan Brinkhuis, 1981 **Galois Module Structure of Algebraic Integers**

A. Fröhlich, 2012-12-06 In this volume we present a survey of the theory of Galois module structure for rings of algebraic integers. This theory has experienced a rapid growth in the last ten to twelve years, acquiring mathematical depth and significance and leading to new insights also in other branches of algebraic number theory. The decisive take off point was the discovery of its connection with Artin L functions. We shall concentrate on the topic which has been at the centre of this development, namely the global module structure for tame Galois extensions of number fields in other words of extensions with trivial local module structure. The basic problem can be stated in down to earth terms: the nature of the obstruction to the existence of a free basis over the integral group ring. Here a definitive pattern of a theory has emerged, central problems have been solved and a stage has clearly been reached when a systematic account has become both possible and desirable. Of course the solution of one set of problems has led to new questions and it will be our aim also to discuss some of these. We hope to help the reader early on to an understanding of the basic structure of our theory and of its central theme and to motivate at each successive stage the introduction of new concepts and new tools. **Brauer Type**

Embedding Problems Arne Ledet, This monograph is concerned with Galois theoretical embedding problems of so called Brauer type with a focus on 2 groups and on finding explicit criteria for solvability and explicit constructions of the solutions. Before considering questions of reducing the embedding problems and reformulating the solvability criteria the author provides the necessary theory of Brauer groups, group cohomology and quadratic forms. The book will be suitable for students seeking an introduction to embedding problems and inverse Galois theory. It will also be a useful reference for researchers in the field. **Galois Module Structure of Algebraic Integers** Albrecht Fröhlich, 1983 **Orders and their Applications**

Irving Reiner, Klaus W. Roggenkamp, 2006-11-14 With contributions by numerous experts. Galois Theory and Modular Forms Ki-ichiro Hashimoto, Katsuya Miyake, Hiroaki Nakamura, 2013-12-01 This volume is an outgrowth of the research project The Inverse Galois Problem and its Application to Number Theory which was carried out in three academic years from 1999 to 2001 with the support of the Grant in Aid for Scientific Research B 1 No 11440013. In September 2001 an international conference Galois Theory and Modular Forms was held at Tokyo Metropolitan University after some preparatory work shops and symposia in previous years. The title of this book came from that of the conference and the authors were participants of those meetings. All of the articles here were critically refereed by experts. Some of these articles give well prepared surveys on branches of research areas and many articles aim to bear the latest research results accompanied with carefully written expository introductions. When we started our research project we picked up three areas to investigate under the key word Galois groups, namely generic polynomials to be applied to number theory, Galois coverings of algebraic curves to study new type of representations of absolute Galois groups and explicitly described Shimura varieties.

to understand well the Galois structures of some interesting polynomials including Brumer's sextic for the alternating group of degree 5. The topics of the articles in this volume are widely spread as a result. At a first glance some readers may think this book somewhat unfocused. Recent Developments in the Inverse Galois Problem Jointsummerresearchconf Onrecentdevel Intheinverse, 1995-07-30 This book contains the refereed proceedings of the AMS IMS SIAM Joint Summer Research Conference on Recent Developments in the Inverse Galois Problem held in July 1993 at the University of Washington Seattle. A new review of Serre's *Topics in Galois Theory* serves as a starting point. The book describes the latest research on explicit presentation of the absolute Galois group of the rationals. Containing the first appearance of generalizations of modular curves, the book presents applications that demonstrate the full scope of the Inverse Galois Problem. In particular, the papers collected here show the ubiquity of the applications of the Inverse Galois Problem and its compelling significance. The book will serve as a guide to progress on the Inverse Galois Problem and as an aid in using this work in other areas of mathematics. This includes coding theory and other finite field applications. Group theory and a first course in algebraic curves are sufficient for understanding many papers in the volume. Graduate students will find this an excellent reference to current research as it contains a list of problems appropriate for thesis material in arithmetic geometry, algebraic number theory, and group theory. *Inverse Galois Theory* Gunter Malle, B. Heinrich Matzat, 2018-07-27 A consistent and near complete survey of the important progress made in the field over the last few years with the main emphasis on the rigidity method and its applications. Among others, this monograph presents the most successful existence theorems known and construction methods for Galois extensions as well as solutions for embedding problems combined with a collection of the existing Galois realizations. 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. Galois Groups and Fundamental Groups Leila Schneps, 2003-07-21 Table of contents *Introduction to Orthogonal, Symplectic, and*

Unitary Representations of Finite Groups Carl R. Riehm, *Polyhedral and Semidefinite Programming Methods in Combinatorial Optimization* Levent Tunçel, 2016-05-05 Since the early 1960s polyhedral methods have played a central role in both the theory and practice of combinatorial optimization Since the early 1990s a new technique semidefinite programming has been increasingly applied to some combinatorial optimization problems The semidefinite programming problem is the problem of optimizing a linear function of matrix variables subject to finitely many linear inequalities and the positive semidefiniteness condition on some of the matrix variables On certain problems such as maximum cut maximum satisfiability maximum stable set and geometric representations of graphs semidefinite programming techniques yield important new results This monograph provides the necessary background to work with semidefinite optimization techniques usually by drawing parallels to the development of polyhedral techniques and with a special focus on combinatorial optimization graph theory and lift and project methods It allows the reader to rigorously develop the necessary knowledge tools and skills to work in the area that is at the intersection of combinatorial optimization and semidefinite optimization A solid background in mathematics at the undergraduate level and some exposure to linear optimization are required Some familiarity with computational complexity theory and the analysis of algorithms would be helpful Readers with these prerequisites will appreciate the important open problems and exciting new directions as well as new connections to other areas in mathematical sciences that the book provides

Galois Cohomology and Class Field Theory David Harari, 2020-06-24 This graduate textbook offers an introduction to modern methods in number theory It gives a complete account of the main results of class field theory as well as the Poitou Tate duality theorems considered crowning achievements of modern number theory Assuming a first graduate course in algebra and number theory the book begins with an introduction to group and Galois cohomology Local fields and local class field theory including Lubin Tate formal group laws are covered next followed by global class field theory and the description of abelian extensions of global fields The final part of the book gives an accessible yet complete exposition of the Poitou Tate duality theorems Two appendices cover the necessary background in homological algebra and the analytic theory of Dirichlet L series including the ebotarev density theorem Based on several advanced courses given by the author this textbook has been written for graduate students Including complete proofs and numerous exercises the book will also appeal to more experienced mathematicians either as a text to learn the subject or as a reference

Coxeter Groups and Hopf Algebras Marcelo Aguiar, 2006 An important idea in the work of G C Rota is that certain combinatorial objects give rise to Hopf algebras that reflect the manner in which these objects compose and decompose Recent work has seen the emergence of several interesting Hopf algebras of this kind which connect diverse subjects such as combinatorics algebra geometry and theoretical physics This monograph presents a novel geometric approach using Coxeter complexes and the projection maps of Tits for constructing and studying many of these objects as well as new ones The first three chapters introduce the necessary background ideas making this work accessible

to advanced graduate students The later chapters culminate in a unified and conceptual construction of several Hopf algebras based on combinatorial objects which emerge naturally from the geometric viewpoint This work lays a foundation and provides new insights for further development of the subject

Elliptic Curves, Hilbert Modular Forms and Galois Deformations Laurent Berger, Gebhard Böckle, Lassina Dembélé, Mladen Dimitrov, Tim Dokchitser, John Voight, 2013-06-13 The notes in this volume correspond to advanced courses held at the Centre de Recerca Matemàtica as part of the research program in Arithmetic Geometry in the 2009-2010 academic year The notes by Laurent Berger provide an introduction to p -adic Galois representations and Fontaine rings which are especially useful for describing many local deformation rings at p that arise naturally in Galois deformation theory The notes by Gebhard Böckle offer a comprehensive course on Galois deformation theory starting from the foundational results of Mazur and discussing in detail the theory of pseudo representations and their deformations local deformations at places $l \neq p$ and local deformations at p which are flat In the last section the results of Böckle and Kisin on presentations of global deformation rings over local ones are discussed The notes by Mladen Dimitrov present the basics of the arithmetic theory of Hilbert modular forms and varieties with an emphasis on the study of the images of the attached Galois representations on modularity lifting theorems over totally real number fields and on the cohomology of Hilbert modular varieties with integral coefficients The notes by Lassina Dembélé and John Voight describe methods for performing explicit computations in spaces of Hilbert modular forms These methods depend on the Jacquet-Langlands correspondence and on computations in spaces of quaternionic modular forms both for the case of definite and indefinite quaternion algebras Several examples are given and applications to modularity of Galois representations are discussed The notes by Tim Dokchitser describe the proof obtained by the author in a joint project with Vladimir Dokchitser of the parity conjecture for elliptic curves over number fields under the assumption of finiteness of the Tate-Shafarevich group The statement of the Birch and Swinnerton-Dyer conjecture is included as well as a detailed study of local and global root numbers of elliptic curves and their classification

Canadian Journal of Mathematics, 1980-04

[Ω-Bibliography of Mathematical Logic](#) Heinz-Dieter Ebbinghaus, 2013-06-29 Gert H. Müller The growth of the number of publications in almost all scientific areas as in the area of mathematical logic is taken as a sign of our scientifically minded culture but it also has a terrifying aspect In addition given the rapidly growing sophistication specialization and hence subdivision of logic researchers students and teachers may have a hard time getting an overview of the existing literature particularly if they do not have an extensive library available in their neighbourhood they simply do not even know what to ask for More specifically if someone vaguely knows that something vaguely connected with his interests exists somewhere in the literature he may not be able to find it even by searching through the publications scattered in the review journals Answering this challenge was and is the central motivation for compiling this Bibliography The Bibliography comprises presently the following six volumes listed with the corresponding Editors

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Theory H D Ebbinghaus IV Recursion Theory P G Hinman V Set Theory A R Blass VI ProofTheory Constructive Mathematics J E Kister D van Dalen A S Troelstra *Mathematics in Berlin* Heinrich Begehr, Helmut Koch, Jürg Kramer, Norbert Schappacher, Ernst-Jochen Thiele, 2012-12-06 This little book is conceived as a service to mathematicians attending the 1998 International Congress of Mathematicians in Berlin It presents a comprehensive condensed overview of mathematical activity in Berlin from Leibniz almost to the present day without however including biographies of living mathematicians Since many towering figures in mathematical history worked in Berlin most of the chapters of this book are concise biographies These are held together by a few survey articles presenting the overall development of entire periods of scientific life at Berlin Overlaps between various chapters and differences in style between the chapters were inevitable but sometimes this provided opportunities to show different aspects of a single historical event for instance the Kronecker Weierstrass controversy The book aims at readability rather than scholarly completeness There are no footnotes only references to the individual bibliographies of each chapter Still we do hope that the texts brought together here and written by the various authors for this volume constitute a solid introduction to the history of Berlin mathematics *p-adic Hodge Theory* Bhargav Bhatt, Martin Olsson, 2020-06-15 This proceedings volume contains articles related to the research presented at the 2017 Simons Symposium on p adic Hodge theory This symposium was focused on recent developments in p adic Hodge theory especially those concerning integral questions and their connections to notions in algebraic topology This volume features original research articles as well as articles that contain new research and survey some of these recent developments It is the first of three volumes dedicated to p adic Hodge theory **Contributions to Science** , 1999

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