

# 4

## Cohomology Theory of Galois Groups

In this chapter, we first describe the general theory of forming cohomology groups out of an abelian category and a left exact functor. Then we apply the theory to the category of discrete Galois modules and study resulting Galois cohomology groups. We would like to give a full proof of the Tate duality theorems and the Euler characteristic formulas of Galois cohomology groups.

### 4.1 Categories and Functors

In this section, we describe briefly the theory of categories to provide the basics for our later study of extension groups.

#### 4.1.1 Categories

A category  $\mathcal{C}$  consists of two data: objects of  $\mathcal{C}$  and morphisms of  $\mathcal{C}$ . For any two objects  $X$  and  $Y$  of  $\mathcal{C}$ , we have a set  $\text{Hom}_{\mathcal{C}}(X, Y)$  of morphisms satisfying the following three rules:

(ct1) For three objects  $X, Y, Z$ , there is a composition map:

$$\text{Hom}_{\mathcal{C}}(Y, Z) \times \text{Hom}_{\mathcal{C}}(X, Y) \rightarrow \text{Hom}_{\mathcal{C}}(X, Z) : (g, f) \mapsto g \circ f;$$

(ct2) (Associativity). For three morphisms:  $X \xrightarrow{f} Y \xrightarrow{g} Z \xrightarrow{h} W$ , we have  $h \circ (g \circ f) = (h \circ g) \circ f$ ;

(ct3) For each object  $X$ , there is a specific element  $1_X \in \text{Hom}_{\mathcal{C}}(X, X)$  such that  $1_X \circ f = f$  and  $g \circ 1_X = g$  for all  $f : Y \rightarrow X$  and  $g : X \rightarrow Z$ .

For two objects  $X$  and  $Y$  in  $\mathcal{C}$ , we write  $X \cong Y$  if there exist morphisms  $f : X \rightarrow Y$  and  $g : Y \rightarrow X$  such that  $f \circ g = 1_Y$  and  $g \circ f = 1_X$ .

# Galois Cohomology

**SA Adler**



## **Galois Cohomology:**

**Modular Forms and Galois Cohomology** Haruzo Hida, 2000-06-29 Comprehensive account of recent developments in arithmetic theory of modular forms for graduates and researchers     *An Introduction to Galois Cohomology and its Applications* Grégory Berhuy, 2010-09-09 This is the first elementary introduction to Galois cohomology and its applications The first part is self contained and provides the basic results of the theory including a detailed construction of the Galois cohomology functor as well as an exposition of the general theory of Galois descent The author illustrates the theory using the example of the descent problem of conjugacy classes of matrices The second part of the book gives an insight into how Galois cohomology may be used to solve algebraic problems in several active research topics such as inverse Galois theory rationality questions or the essential dimension of algebraic groups Assuming only a minimal background in algebra the main purpose of this book is to prepare graduate students and researchers for more advanced study     **Galois Cohomology** Jean-Pierre Serre, 2013-12-01 This volume is an English translation of *Cohomologie Galoisienne* The original edition Springer LN5 1964 was based on the notes written with the help of Michel Raynaud of a course I gave at the College de France in 1962 1963 In the present edition there are numerous additions and one suppression Verdier s text on the duality of profinite groups The most important addition is the photographic reproduction of R Steinberg s Regular elements of semisimple algebraic groups Publ Math LH E S 1965 I am very grateful to him and to LH E S for having authorized this reproduction Other additions include A proof of the Golod Shafarevich inequality Chap I App 2 The resume de cours of my 1991 1992 lectures at the College de France on Galois cohomology of  $k$  T Chap II App The resume de cours of my 1990 1991 lectures at the College de France on Galois cohomology of semisimple groups and its relation with abelian cohomology especially in dimension 3 Chap III App 2 The bibliography has been extended open questions have been updated as far as possible and several exercises have been added In order to facilitate references the numbering of propositions lemmas and theorems has been kept as in the original 1964 text Jean Pierre Serre Harvard Fall 1996 Table of Contents Foreword V Chapter I Cohomology of profinite groups 1 Profinite groups 3     *Cohomological Invariants in Galois Cohomology* Skip Garibaldi, Alexander Merkurjev, Jean-Pierre Serre, 2003 This volume addresses algebraic invariants that occur in the confluence of several important areas of mathematics including number theory algebra and arithmetic algebraic geometry The invariants are analogues for Galois cohomology of the characteristic classes of topology which have been extremely useful tools in both topology and geometry It is hoped that these new invariants will prove similarly useful Early versions of the invariants arose in the attempt to classify the quadratic forms over a given field The authors are well known experts in the field Serre in particular is recognized as both a superb mathematician and a master author His book on Galois cohomology from the 1960s was fundamental to the development of the theory Merkurjev also an expert mathematician and author co wrote *The Book of Involutions* Volume 44 in the AMS Colloquium Publications series an important work that

contains preliminary descriptions of some of the main results on invariants described here The book also includes letters between Serre and some of the principal developers of the theory It will be of interest to graduate students and research mathematicians interested in number theory

**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

*Central Simple Algebras and Galois Cohomology* Philippe Gille, Tamás Szamuely, 2006-08-10 This book is the first comprehensive modern introduction to the theory of central simple algebras over arbitrary fields Starting from the basics it reaches such advanced results as the Merkurjev Suslin theorem This theorem is both the culmination of work initiated by Brauer Noether Hasse and Albert and the starting point of current research in motivic cohomology theory by Voevodsky Suslin Rost and others Assuming only a solid background in algebra but no homological algebra the book covers the basic theory of central simple algebras methods of Galois descent and Galois cohomology Severi Brauer varieties residue maps and finally Milnor K theory and K cohomology The last chapter rounds off the theory by presenting the results in positive characteristic including the theorem of Bloch Gabber Kato The book is suitable as a textbook for graduate students and as a reference for researchers working in algebra algebraic geometry or K theory

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**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

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conjecture for the corresponding elliptic curves over global fields       $p$ -adic  $L$ -Functions and  $p$ -adic Representations  
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