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Galois Theory, Hopf Algebras, and Semiabelian Categories

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Editors



American Mathematical Society

Galois Theory Hopf Algebras And Semiabelian Categories

Matej Brešar, Alfred Geroldinger, Bruce Olberding, Daniel Smertnig



Galois Theory Hopf Algebras And Semiabelian Categories:

Galois Theory, Hopf Algebras, and Semiabelian Categories George Janelidze, 2004 This volume is based on talks given at the Workshop on Categorical Structures for Descent and Galois Theory Hopf Algebras and Semiabelian Categories held at The Fields Institute for Research in Mathematical Sciences Toronto ON Canada The meeting brought together researchers working in these interrelated areas This collection of survey and research papers gives an up to date account of the many current connections among Galois theories Hopf algebras and semiabelian categories The book features articles by leading researchers on a wide range of themes specifically abstract Galois theory Hopf algebras and categorical structures in particular quantum categories and higher dimensional structures Articles are suitable for graduate students and researchers specifically those interested in Galois theory and Hopf algebras and their categorical unification *Galois Theory, Hopf Algebras, and Semiabelian Categories* George Janelidze, Bodo Pareigis, and Walter Tholen,

Hopf Algebras, Tensor Categories and Related Topics Nicolás Andruskiewitsch, Gongxiang Liu, Susan Montgomery, Yinhua Zhang, 2021-07-06 The articles highlight the latest advances and further research directions in a variety of subjects related to tensor categories and Hopf algebras Primary topics discussed in the text include the classification of Hopf algebras structures and actions of Hopf algebras algebraic supergroups representations of quantum groups quasi quantum groups algebras in tensor categories and the construction method of fusion categories **Category Theory And Applications: A Textbook For Beginners**

(Second Edition) Marco Grandis, 2021-03-05 Category Theory now permeates most of Mathematics large parts of theoretical Computer Science and parts of theoretical Physics Its unifying power brings together different branches and leads to a better understanding of their roots This book is addressed to students and researchers of these fields and can be used as a text for a first course in Category Theory It covers the basic tools like universal properties limits adjoint functors and monads These are presented in a concrete way starting from examples and exercises taken from elementary Algebra Lattice Theory and Topology then developing the theory together with new exercises and applications A reader should have some elementary knowledge of these three subjects or at least two of them in order to be able to follow the main examples appreciate the unifying power of the categorical approach and discover the subterranean links brought to light and formalised by this perspective Applications of Category Theory form a vast and differentiated domain This book wants to present the basic applications in Algebra and Topology with a choice of more advanced ones based on the interests of the author References are given for applications in many other fields In this second edition the book has been entirely reviewed adding many applications and exercises All non obvious exercises have now a solution or a reference in the case of an advanced topic solutions are now collected in the last chapter Galois and Cleft Monoidal Cowreaths. Applications D. Bulacu, B. Torrecillas, 2021-07-21 We introduce pre Galois and cleft monoidal cowreaths Generalizing a result of Schneider to any pre Galois cowreath we associate a pair of adjoint functors L R and give necessary and sufficient conditions for the

adjunction to be an equivalence of categories Inspired by the work of Doi we also give sufficient conditions for $L \dashv R$ to be an equivalence and consequently conditions under which a fundamental structure theorem for entwined modules over monoidal cowreaths holds We show that a cowreath is cleft if and only if it is Galois and has the normal basis property this generalizes a result concerning Hopf cleft extensions due to Doi and Takeuchi Furthermore we show that the cleft cowreaths are in a one to one correspondence with what we call cleft wreaths The latter are wreaths in the sense of Lack and Street equipped with two additional morphisms satisfying some compatibility relations Note that in general the algebras defined by cleft wreaths cannot be identified to generalized crossed product algebras as they were defined by Doi and Takeuchi and Blattner Cohen and Montgomery This becomes more transparent when we apply our theory to cowreaths defined by actions and coactions of a quasi Hopf algebra monoidal entwining structures and Doi Hopf structures respectively In particular we obtain that some constructions of Brzeziński and Schauenburg produce examples of cleft wreaths and therefore of cleft cowreaths too

Handbook of Algebra M. Hazewinkel, 2009-07-08 Algebra as we know it today consists of many different ideas concepts and results A reasonable estimate of the number of these different items would be somewhere between 50 000 and 200 000 Many of these have been named and many more could and perhaps should have a name or a convenient designation Even the nonspecialist is likely to encounter most of these either somewhere in the literature disguised as a definition or a theorem or to hear about them and feel the need for more information If this happens one should be able to find enough information in this Handbook to judge if it is worthwhile to pursue the quest In addition to the primary information given in the Handbook there are references to relevant articles books or lecture notes to help the reader An excellent index has been included which is extensive and not limited to definitions theorems etc The Handbook of Algebra will publish articles as they are received and thus the reader will find in this third volume articles from twelve different sections The advantages of this scheme are two fold accepted articles will be published quickly and the outline of the Handbook can be allowed to evolve as the various volumes are published A particularly important function of the Handbook is to provide professional mathematicians working in an area other than their own with sufficient information on the topic in question if and when it is needed Thorough and practical source of information Provides in depth coverage of new topics in algebra Includes references to relevant articles books and lecture notes

Mal'cev, Protomodular, Homological and Semi-Abelian Categories Francis Borceux, Dominique Bourn, 2004-02-29 The purpose of the book is to take stock of the situation concerning Algebra via Category Theory in the last fifteen years where the new and synthetic notions of Mal'cev protomodular homological and semi abelian categories emerged These notions force attention on the fibration of points and allow a unified treatment of the main algebraic homological lemmas Noether isomorphisms commutator theory The book gives full importance to examples and makes strong connections with Universal Algebra One of its aims is to allow appreciating how productive the essential categorical constraint is knowing an object not from inside via its elements but from outside via its relations with its environment The book is intended to be a

powerful tool in the hands of researchers in category theory homology theory and universal algebra as well as a textbook for graduate courses on these topics

Associative and Non-Associative Algebras and Applications Mercedes Siles Molina,Laiachi El Kaoutit,Mohamed Louzari,L'Moufadal Ben Yakoub,Mohamed Benslimane,2020-01-02 This book gathers together selected contributions presented at the 3rd Moroccan Andalusian Meeting on Algebras and their Applications held in Chefchaouen Morocco April 12 14 2018 and which reflects the mathematical collaboration between south European and north African countries mainly France Spain Morocco Tunisia and Senegal The book is divided in three parts and features contributions from the following fields algebraic and analytic methods in associative and non associative structures homological and categorical methods in algebra and history of mathematics Covering topics such as rings and algebras representation theory number theory operator algebras category theory group theory and information theory it opens up new avenues of study for graduate students and young researchers The findings presented also appeal to anyone interested in the fields of algebra and mathematical analysis

Higher Dimensional Categories: From Double To Multiple Categories Marco Grandis,2019-09-09 The study of higher dimensional categories has mostly been developed in the globular form of 2 categories n categories ω categories and their weak versions Here we study a different form double categories n tuple categories and multiple categories with their weak and lax versions We want to show the advantages of this form for the theory of adjunctions and limits Furthermore this form is much simpler in higher dimension starting with dimension three where weak 3 categories also called tricategories are already quite complicated much more than weak or lax triple categories This book can be used as a textbook for graduate and postgraduate studies and as a basis for research Notions are presented in a concrete way with examples and exercises the latter are endowed with a solution or hints Part I devoted to double categories starts at basic category theory and is kept at a relatively simple level Part II on multiple categories can be used independently by a reader acquainted with 2 dimensional categories

Homological Algebra Marco Grandis,2012 In this book we want to explore aspects of coherence in homological algebra that already appear in the classical situation of abelian groups or abelian categories Lattices of subobjects are shown to play an important role in the study of homological systems from simple chain complexes to all the structures that give rise to spectral sequences A parallel role is played by semigroups of endorelations These links rest on the fact that many such systems but not all of them live in distributive sublattices of the modular lattices of subobjects of the system The property of distributivity allows one to work with induced morphisms in an automatically consistent way as we prove in a Coherence Theorem for homological algebra On the contrary a non distributive homological structure like the bifiltered chain complex can easily lead to inconsistency if one explores the interaction of its two spectral sequences farther than it is normally done The same property of distributivity also permits representations of homological structures by means of sets and lattices of subsets yielding a precise foundation for the heuristic tool of Zeeman diagrams as universal models of spectral sequences We thus establish an effective method of

working with spectral sequences called crossword chasing that can often replace the usual complicated algebraic tools and be of much help to readers that want to apply spectral sequences in any field

Hopf Algebras and Their Generalizations from a Category Theoretical Point of View Gabriella Böhm, 2018-11-01 These lecture notes provide a self contained introduction to a wide range of generalizations of Hopf algebras Multiplication of their modules is described by replacing the category of vector spaces with more general monoidal categories thereby extending the range of applications Since Sweedler's work in the 1960s Hopf algebras have earned a noble place in the garden of mathematical structures Their use is well accepted in fundamental areas such as algebraic geometry representation theory algebraic topology and combinatorics Now similar to having moved from groups to groupoids it is becoming clear that generalizations of Hopf algebras must also be considered This book offers a unified description of Hopf algebras and their generalizations from a category theoretical point of view The author applies the theory of liftings to Eilenberg Moore categories to translate the axioms of each considered variant of a bialgebra or Hopf algebra to a bimonad or Hopf monad structure on a suitable functor Covered structures include bialgebroids over arbitrary algebras in particular weak bialgebras and bimonoids in duoidal categories such as bialgebras over commutative rings semi Hopf group algebras small categories and categories enriched in coalgebras Graduate students and researchers in algebra and category theory will find this book particularly useful Including a wide range of illustrative examples numerous exercises and completely worked solutions it is suitable for self study

Towards Higher Categories John C. Baez, J. Peter May, 2009-09-23 This IMA Volume in Mathematics and its Applications TOWARDS HIGHER CATEGORIES contains expository and research papers based on a highly successful IMA Summer Program on n Categories Foundations and Applications We are grateful to all the participants for making this occasion a very productive and stimulating one We would like to thank John C Baez Department of Mathematics University of California Riverside and J Peter May Department of Mathematics University of Chicago for their superb role as summer program organizers and editors of this volume We take this opportunity to thank the National Science Foundation for its support of the IMA Series Editors Fadil Santosa Director of the IMA Markus Keel Deputy Director of the IMA v PREFACE DEDICATED TO MAX KELLY JUNE 5 1930 TO JANUARY 26 2007 This is not a proceedings of the 2004 conference n Categories Foundations and Applications that we organized and ran at the IMA during the two weeks June 7 18 2004 We thank all the participants for helping make that a vibrant and inspiring occasion We also thank the IMA staff for a magnificent job There has been a great deal of work in higher category theory since then but we still feel that it is not yet time to offer a volume devoted to the main topic of the conference

Homological Algebra: In Strongly Non-abelian Settings Marco Grandis, 2013-01-11 We propose here a study of semiexact and homological categories as a basis for a generalised homological algebra Our aim is to extend the homological notions to deeply non abelian situations where satellites and spectral sequences can still be studied This is a sequel of a book on Homological Algebra The interplay of homology with distributive lattices and orthodox

semigroups published by the same Editor but can be read independently of the latter The previous book develops homological algebra in p -exact categories i.e. exact categories in the sense of Puppe and Mitchell a moderate generalisation of abelian categories that is nevertheless crucial for a theory of coherence and universal models of even abelian homological algebra The main motivation of the present much wider extension is that the exact sequences or spectral sequences produced by unstable homotopy theory cannot be dealt with in the previous framework According to the present definitions a semiexact category is a category equipped with an ideal of null morphisms and provided with kernels and cokernels with respect to this ideal A homological category satisfies some further conditions that allow the construction of subquotients and induced morphisms in particular the homology of a chain complex or the spectral sequence of an exact couple Extending abelian categories and also the p -exact ones these notions include the usual domains of homology and homotopy theories e.g. the category of pairs of topological spaces or groups they also include their codomains since the sequences of homotopy objects for a pair of pointed spaces or a fibration can be viewed as exact sequences in a homological category whose objects are actions of groups on pointed sets

Algebra and Coding Theory A. Leroy, S. K. Jain, 2023-05-01 This volume contains the proceedings of the Virtual Conference on Noncommutative Rings and their Applications VII in honor of Tariq Rizvi held from July 5-7 2021 and the Virtual Conference on Quadratic Forms Rings and Codes held on July 8 2021 both of which were hosted by the Universit  d Artois Lens France The articles cover topics in commutative and noncommutative algebra and applications to coding theory In some papers applications of Frobenius rings the skew group rings and iterated Ore extensions to coding theory are discussed Other papers discuss classical topics such as Utumi rings Baer rings nil and nilpotent algebras and Brauer groups Still other articles are devoted to various aspects of the elementwise study for rings and modules Lastly this volume includes papers dealing with questions in homological algebra and lattice theory The articles in this volume show the vivacity of the research of noncommutative rings and its influence on other subjects

Triangulated Categories in Representation Theory and Beyond Petter Andreas Bergh, Steffen Oppermann, Øyvind Solberg, 2024-07-29 In recent years triangulated categories have proved very successful as a common mathematical framework for formulating important advances in various fields and at the same time for the interaction between different subject areas The purpose of the symposium was therefore not only the study of triangulated categories in itself but rather fruitful exchanges between disciplines The symposium brought together established researchers who have made important contributions involving triangulated categories Many participants came from representation theory but there were also participants with backgrounds in commutative algebra geometry and algebraic topology

Joachim Lambek: The Interplay of Mathematics, Logic, and Linguistics Claudia Casadio, Philip J. Scott, 2021-03-20 This book is dedicated to the life and work of the mathematician Joachim Lambek 1922-2014 The editors gather together noted experts to discuss the state of the art of various of Lambek's works in logic category theory and linguistics and to celebrate his contributions to those areas over the

course of his multifaceted career After early work in combinatorics and elementary number theory Lambek became a distinguished algebraist notably in ring theory In the 1960s he began to work in category theory categorical algebra logic proof theory and foundations of computability In a parallel development beginning in the late 1950s and for the rest of his career Lambek also worked extensively in mathematical linguistics and computational approaches to natural languages He and his collaborators perfected production and type grammars for numerous natural languages Lambek grammars form an early noncommutative precursor to Girard's linear logic In a surprising development 2000 he introduced a novel and deeper algebraic framework which he called pregroup grammars for analyzing natural language along with algebraic higher category and proof theoretic semantics This book is of interest to mathematicians logicians linguists and computer scientists

Recent Progress in Ring and Factorization Theory Matej Brešar, Alfred Geroldinger, Bruce Olberding, Daniel Smertnig, 2025-06-11 This proceedings volume gathers a selection of cutting edge research in both commutative and non commutative ring theory and factorization theory The papers were presented at the Conference on Rings and Factorization held at the University of Graz Austria July 10-14 2023 The volume covers a wide range of topics including multiplicative ideal theory Dedekind Prüfer Krull and Mori rings non commutative rings and algebras rings of integer valued polynomials topological aspects in ring theory factorization theory in rings and semigroups and direct sum decomposition of modules The conference also featured two special sessions dedicated to Matej Brešar and Sophie Frisch on the occasion of their 60th birthdays This volume is aimed at graduate students and researchers in these areas as well as related fields and provides new insights into both classical and contemporary research in ring and factorization theory

Simplicial Methods for Higher Categories Simona Paoli, 2019-06-03 This monograph presents a new model of mathematical structures called weak n categories These structures find their motivation in a wide range of fields from algebraic topology to mathematical physics algebraic geometry and mathematical logic While strict n categories are easily defined in terms associative and unital composition operations they are of limited use in applications which often call for weakened variants of these laws The author proposes a new approach to this weakening whose generality arises not from a weakening of such laws but from the very geometric structure of its cells a geometry dubbed weak globularity The new model called weakly globular n -fold categories is one of the simplest known algebraic structures yielding a model of weak n categories The central result is the equivalence of this model to one of the existing models due to Tamsamani and further studied by Simpson This theory has intended applications to homotopy theory mathematical physics and to long standing open questions in category theory As the theory is described in elementary terms and the book is largely self contained it is accessible to beginning graduate students and to mathematicians from a wide range of disciplines well beyond higher category theory The new model makes a transparent connection between higher category theory and homotopy theory rendering it particularly suitable for category theorists and algebraic topologists Although the results are complex readers are guided with an intuitive explanation before

each concept is introduced and with diagrams showing the interconnections between the main ideas and results

Computer Science Logic Zoltán Ésik, 2006-09-28 This book constitutes the refereed proceedings of the 20th International Workshop on Computer Science Logic CSL 2006 The book presents 37 revised full papers together with 4 invited contributions addressing all current aspects of logic in computer science Coverage includes automated deduction and interactive theorem proving constructive mathematics and type theory equational logic and term rewriting automata and formal logics modal and temporal logic model checking finite model theory and more **Computer Science Logic** European Association for Computer Science Logic. Conference, 2006-09-20 This book constitutes the refereed proceedings of the 20th International Workshop on Computer Science Logic CSL 2006 held as the 15th Annual Conference of the EACSL in Szeged Hungary in September 2006 The 37 revised full papers presented together with 4 invited contributions were carefully reviewed and selected from 132 submissions All current aspects of logic in computer science are addressed including automated deduction and interactive theorem proving constructive mathematics and type theory equational logic and term rewriting automata and formal logics modal and temporal logic model checking logical aspects of computational complexity finite model theory computational proof theory logic programming and constraints lambda calculus and combinatory logic categorical logic and topological semantics domain theory database theory specification extraction and transformation of programs logical foundations of programming paradigms verification of security protocols linear logic higher order logic nonmonotonic reasoning as well as logics and type systems for biology

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