

Alexander J. Hahn

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Clifford Algebras,
and Arithmetic
Witt Groups

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Pertti Lounesto



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Quadratic Algebras, Clifford Algebras, and Arithmetic Witt Groups Alexander J. Hahn, 2012-12-06 Quadratic Algebras Clifford Algebras and Arithmetic Forms introduces mathematicians to the large and dynamic area of algebras and forms over commutative rings The book begins very elementary and progresses gradually in its degree of difficulty Topics include the connection between quadratic algebras Clifford algebras and quadratic forms Brauer groups the matrix theory of Clifford algebras over fields Witt groups of quadratic and symmetric bilinear forms Some of the new results included by the author concern the representation of Clifford algebras the structure of Arf algebra in the free case connections between the group of isomorphic classes of finitely generated projectives of rank one and arithmetic results about the quadratic Witt group

Algebra, Geometry and Mathematical Physics Abdenacer Makhlouf, Eugen Paal, Sergei D. Silvestrov, Alexander Stolin, 2014-06-17 This book collects the proceedings of the Algebra Geometry and Mathematical Physics Conference held at the University of Haute Alsace France October 2011 Organized in the four areas of algebra geometry dynamical symmetries and conservation laws and mathematical physics and applications the book covers deformation theory and quantization Hom algebras and n ary algebraic structures Hopf algebra integrable systems and related math structures jet theory and Weil bundles Lie theory and applications non commutative and Lie algebra and more The papers explore the interplay between research in contemporary mathematics and physics concerned with generalizations of the main structures of Lie theory aimed at quantization and discrete and non commutative extensions of differential calculus and geometry non associative structures actions of groups and semi groups non commutative dynamics non commutative geometry and applications in physics and beyond The book benefits a broad audience of researchers and advanced students

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Computations and Combinatorics in Commutative Algebra Anna M. Bigatti, Philippe Gimenez, Eduardo Sáenz-de-Cabezón, 2017-03-14 Featuring up to date coverage of three topics lying at the intersection of combinatorics and commutative algebra namely Koszul algebras primary decompositions and subdivision operations in simplicial complexes this book has its focus on computations Computations and Combinatorics in Commutative Algebra has been written by experts in both theoretical and computational aspects of these three subjects and is aimed at a broad audience from experienced researchers who want to have an easy but deep review of the topics covered to postgraduate students who need a quick introduction to the techniques The computational treatment of the material including plenty of examples and code will be useful for a wide range of professionals interested in the connections between commutative algebra and combinatorics

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News Inc Portland OR *Advances in Hopf Algebras* Jeffrey Bergen, Susan Montgomery, 2023-08-18 This remarkable reference covers topics such as quantum groups Hopf Galois theory actions and coactions of Hopf algebras smash and crossed products and the structure of cosemisimple Hopf algebras *Operator Algebras, Mathematical Physics, and Low Dimensional Topology* Richard Herman, Betül Tanbay, 1993-11-15 This volume records the proceedings of an international conference that explored recent developments and the interaction between mathematical theory and physical phenomena

Clifford Algebras Pertti Lounesto, Rafal Ablamowicz, 2004 In addition attention is paid to the algebraic and Lie theoretic applications of Clifford algebras particularly their intersection with Hopf algebras Lie algebras and representations graded algebras and associated mathematical structures Symplectic Clifford algebras are also discussed Finally Clifford algebras play a strong role in both physics and engineering The physics section features an investigation of geometric algebras chiral Dirac equations spinors and Fermions and applications of Clifford algebras in classical mechanics and general relativity Twistor and octonionic methods electromagnetism and gravity elementary particle physics noncommutative physics Dirac equation quantum spheres and the Standard Model are among topics considered at length *Noncommutative Geometry and Global Analysis* Henri Moscovici, 2011 This volume represents the proceedings of the conference on Noncommutative Geometric Methods in Global Analysis held in honor of Henri Moscovici from June 29 July 4 2009 in Bonn Germany Henri Moscovici has made a number of major contributions to noncommutative geometry global analysis and representation theory This volume which includes articles by some of the leading experts in these fields provides a panoramic view of the interactions of noncommutative geometry with a variety of areas of mathematics It focuses on geometry analysis and topology of manifolds and singular spaces index theory group representation theory connections of noncommutative geometry with number theory and arithmetic geometry Hopf algebras and their cyclic cohomology **Trends in**

Representation Theory of Algebras and Related Topics Andrzej Skowroński, 2008 This book is concerned with recent trends in the representation theory of algebras and its exciting interaction with geometry topology commutative algebra Lie algebras quantum groups homological algebra invariant theory combinatorics model theory and theoretical physics The collection of articles written by leading researchers in the field is conceived as a sort of handbook providing easy access to the present state of knowledge and stimulating further development The topics under discussion include diagram algebras Brauer algebras cellular algebras quasi hereditary algebras Hall algebras Hecke algebras symplectic reflection algebras Cherednik algebras Kashiwara crystals Fock spaces preprojective algebras cluster algebras rank varieties varieties of algebras and modules moduli of representations of quivers semi invariants of quivers Cohen Macaulay modules singularities coherent sheaves derived categories spectral representation theory Coxeter polynomials Auslander Reiten theory Calabi Yau triangulated categories Poincare duality spaces selfinjective algebras periodic algebras stable module categories Hochschild cohomologies deformations of algebras Galois coverings of algebras tilting theory algebras of small homological dimensions

representation types of algebras and model theory This book consists of fifteen self contained expository survey articles and is addressed to researchers and graduate students in algebra as well as a broader mathematical community They contain a large number of open problems and give new perspectives for research in the field *Algebras, Rings and Their Representations* Alberto Facchini, 2006 Surveying the most influential developments in the field this proceedings reviews the latest research on algebras and their representations commutative and non commutative rings modules conformal algebras and torsion theories The volume collects stimulating discussions from world renowned names including Tsit Yuen Lam Larry Levy Barbara Osofsky and Patrick Smith *Clifford Algebras and Spinors* Pertti Lounesto, 2001-05-03 In this book Professor Lounesto offers a unique introduction to Clifford algebras and spinors The initial chapters could be read by undergraduates vectors complex numbers and quaternions are introduced with an eye on Clifford algebras The next chapters will also interest physicists and include treatments of the quantum mechanics of the electron electromagnetism and special relativity with a flavour of Clifford algebras This book also gives the first comprehensive survey of recent research on Clifford algebras A new classification of spinors is introduced based on bilinear covariants of physical observables This reveals a new class of spinors residing between the Weyl Majorana and Dirac spinors Scalar products of spinors are classified by involutory anti automorphisms of Clifford algebras This leads to the chessboard of automorphism groups of scalar products of spinors On the analytic side Brauer Wall groups and Witt rings are discussed and Cauchy's integral formula is generalized to higher dimensions *Algebraic Operads* Jean-Louis Loday, Bruno Vallette, 2012-08-08 In many areas of mathematics some higher operations are arising These have become so important that several research projects refer to such expressions Higher operations form new types of algebras The key to understanding and comparing them to creating invariants of their action is operad theory This is a point of view that is 40 years old in algebraic topology but the new trend is its appearance in several other areas such as algebraic geometry mathematical physics differential geometry and combinatorics The present volume is the first comprehensive and systematic approach to algebraic operads An operad is an algebraic device that serves to study all kinds of algebras associative commutative Lie Poisson A infinity etc from a conceptual point of view The book presents this topic with an emphasis on Koszul duality theory After a modern treatment of Koszul duality for associative algebras the theory is extended to operads Applications to homotopy algebra are given for instance the Homotopy Transfer Theorem Although the necessary notions of algebra are recalled readers are expected to be familiar with elementary homological algebra Each chapter ends with a helpful summary and exercises A full chapter is devoted to examples and numerous figures are included After a low level chapter on Algebra accessible to advanced undergraduate students the level increases gradually through the book However the authors have done their best to make it suitable for graduate students three appendices review the basic results needed in order to understand the various chapters Since higher algebra is becoming essential in several research areas like deformation theory algebraic geometry representation theory differential geometry

algebraic combinatorics and mathematical physics the book can also be used as a reference work by researchers

Commutative Algebra and Noncommutative Algebraic Geometry David Eisenbud, Srikanth B. Iyengar, Anurag K. Singh, J. Toby Stafford, Michel Van den Bergh, 2015-11-19 This book surveys fundamental current topics in these two areas of research emphasising the lively interaction between them Volume 1 contains expository papers ideal for those entering the field

Collected Mathematical Papers: Associative algebras and Riemann matrices Abraham Adrian Albert, Richard E. Block, This book contains the collected works of A Adrian Albert a leading algebraist of the twentieth century Albert made many important contributions to the theory of the Brauer group and central simple algebras Riemann matrices nonassociative algebras and other topics Part 1 focuses on associative algebras and Riemann matrices part 2 on nonassociative algebras and miscellany Because much of Albert's work remains of vital interest in contemporary research this volume will interest mathematicians in a variety of areas

Non-Associative Algebras and Related Topics Helena Albuquerque, Jose Brox, Consuelo Martínez, Paulo Saraiva, 2023-07-28 This proceedings volume presents a selection of peer reviewed contributions from the Second Non Associative Algebras and Related Topics NAART II conference which was held at the University of Coimbra Portugal from July 18-22 2022 The conference was held in honor of mathematician Alberto Elduque who has made significant contributions to the study of non associative structures such as Lie Jordan and Leibniz algebras The papers in this volume are organized into four parts Lie algebras superalgebras and groups Leibniz algebras associative and Jordan algebras and other non associative structures They cover a variety of topics including classification problems special maps automorphisms derivations etc constructions that relate different structures and representation theory One of the unique features of NAART is that it is open to all topics related to non associative algebras including octonion algebras composite algebras Banach algebras connections with geometry applications in coding theory combinatorial problems and more This diversity allows researchers from a range of fields to find the conference subjects interesting and discover connections with their own areas even if they are not traditionally considered non associative algebraists Since its inception in 2011 NAART has been committed to fostering cross disciplinary connections in the study of non associative structures

Numbers Heinz-Dieter Ebbinghaus, Hans Hermes, Friedrich Hirzebruch, Max Koecher, Klaus Mainzer, Jürgen Neukirch, Alexander Prestel, Reinhold Remmert, 2012-12-06 A book about numbers sounds rather dull This one is not Instead it is a lively story about one thread of mathematics the concept of number told by eight authors and organized into a historical narrative that leads the reader from ancient Egypt to the late twentieth century It is a story that begins with some of the simplest ideas of mathematics and ends with some of the most complex It is a story that mathematicians both amateur and professional ought to know Why write about numbers Mathematicians have always found it difficult to develop broad perspective about their subject While we each view our specialty as having roots in the past and sometimes having connections to other specialties in the present we seldom see the panorama of mathematical development over thousands of years

Numbers attempts to give that broad perspective from hieroglyphs to K theory from Dedekind cuts to nonstandard analysis

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