

MODULAR LIE ALGEBRAS AND THEIR REPRESENTATIONS

Helmut Strade
Rolf Farnsteiner

Modular Lie Algebras And Their Representations

Scott C. Dulebohn



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Modular Lie Algebras Geoge B. Seligman, 2012-12-06 The study of the structure of Lie algebras over arbitrary fields is now a little more than thirty years old The first papers to my know ledge which undertook this study as an end in itself were those of JACOBSON Rational methods in the theory of Lie algebras in the Annals and of LANDHERR Uber einfache Liesche Ringe in the Hamburg Abhandlungen both in 1935 Over fields of characteristic zero these thirty years have seen the ideas and results inherited from LIE KILLING E CARTAN and WEYL developed and given new depth meaning and elegance by many contributors Much of this work is presented in 47 64 128 and 234 of the bibliography For those who find the rationalization for the study of Lie algebras in their connections with Lie groups satisfying counterparts to these connections have been found over general non modular fields with the substitution of the formal groups of BOCHNER 40 see also DIEUDONNE 108 or that of the algebraic linear groups of CHEVALLEY 71 for the usual Lie group In particular the relation with algebraic linear groups has stimulated the study of Lie algebras of linear transformations When one admits to consideration Lie algebras over a base field of positive characteristic such are the algebras to which the title of this monograph refers he encounters a new and initially confusing scene

Modular Lie Algebras and Their Representations Dmitriy Rumynin, 1998

Lie Algebras and Their Representations Seok-Jin Kang, Myung-Hwan Kim, Insok Lee, 1996 Over the past 30 years exciting developments in diverse areas of the theory of Lie algebras and their representations have been observed The symposium covered topics such as Lie algebras and combinatorics crystal bases for quantum groups quantum groups and solvable lattice models and modular and infinite dimensional Lie algebras In this volume readers will find several excellent expository articles and research papers containing many significant new results in this area

The Monster and Lie Algebras Joseph Ferrar, Koichiro Harada, 2011-06-24 This series is devoted to the publication of monographs lecture resp seminar notes and other materials arising from programs of the OSU Mathemaical Research Institute This includes proceedings of conferences or workshops held at the Institute and other mathematical writings

Modular Interfaces: Modular Lie Algebras, Quantum Groups, and Lie Superalgebras Vyjayanthi Chari, 1997 This book is a collection of papers dedicated to Richard E Block whose research has been largely devoted to the study of Lie algebras of prime characteristic specifically the classification of simple Lie algebras The volume presents proceedings of a conference held at the University of California at Riverside in February 1994 on the occasion of his

retirement The conference focused on the interplay between the theory of Lie algebras of prime characteristic quantum groups and Lie superalgebras Titles in this series are co published with International Press Cambridge MA USA

Lie Algebras and Related Topics Georgia Benkart, J. Marshall Osborn, 1990 Discusses the problem of determining the finite dimensional simple Lie algebras over an algebraically closed field of characteristic p 7 This book includes topics such as Lie algebras of prime characteristic algebraic groups combinatorics and representation theory and Kac Moody and Virasoro algebras

Jordan Algebras Wilhelm Kaup, Kevin McCrimmon, Holger P. Petersson, 1994 The series is aimed specifically at publishing peer reviewed reviews and contributions presented at workshops and conferences Each volume is associated with a particular conference symposium or workshop These events cover various topics within pure and applied mathematics and provide up to date coverage of new developments methods and applications

Trends in the Representation Theory of Finite Dimensional Algebras Edward L. Green, Birge Huisgen-Zimmermann, 1998 This refereed collection of research papers and survey articles reflects the interplay of finite dimensional algebras with other areas algebraic geometry homological algebra and the theory of quantum groups Current trends are presented from the discussions at the AMS IMS SIAM Joint Summer Research Conference at the University of Washington Seattle The volume features several excellent expository articles which will introduce inspiration to researchers in related areas as it includes original papers spanning a broad spectrum of representation theory

Lie Algebras and Related Topics Marina Avitabile, Jörg Feldvoss, Thomas Weigel, 2015-11-30 This volume contains the proceedings of the Workshop on Lie Algebras in honor of Helmut Strade's 70th Birthday held from May 22-24 2013 at the Università degli Studi di Milano Bicocca Milano Italy Lie algebras are at the core of several areas of mathematics such as Lie groups algebraic groups quantum groups representation theory homogeneous spaces integrable systems and algebraic topology The first part of this volume combines research papers with survey papers by the invited speakers The second part consists of several collections of problems on modular Lie algebras their representations and the conjugacy of their nilpotent elements as well as the Koszulity of restricted Lie algebras and Lie properties of group algebras or restricted universal enveloping algebras

Mathematics and Theoretical Physics Minaketan Behara, Rudolf Fritsch, Rubens G. Lintz, 2011-06-15 The series is aimed specifically at publishing peer reviewed reviews and contributions presented at workshops and conferences Each volume is associated with a particular conference symposium or workshop These events cover various topics within pure and applied mathematics and provide up to date coverage of new developments methods and applications

Representation Theory Zongzhu Lin, Jianpan Wang, 2009-01-16 Nothing provided

Algebras and Modules II Idun Reiten, Sverre O. Smalø, Øyvind Solberg, Canadian Mathematical Society, 1998 The 43 research papers demonstrate the application of recent developments in the representation theory of artin algebras and related topics Among the algebras considered are tame biserial cellular factorial hereditary Hopf Koszul non polynomial growth pre projective Termpereley Lieb tilted and quasi tilted Other topics include tilting and co tilting

modules and generalizations as modules exceptional sequences of modules and vector bundles homological conjectures and vector space categories The treatment assumes knowledge of non commutative algebra including rings modules and homological algebra at a graduate or professional level No index Member prices are 79 for institutions and 59 for individuals which also apply to members of the Canadian Mathematical Society Annotation copyrighted by Book News Inc Portland OR

Group Theory, Algebra, and Number Theory Horst G. Zimmer, 2011-07-20 No detailed description available for Group Theory Algebra and Number Theory

Non-Associative Algebra and Its Applications Santos González, 2012-12-06 This volume contains the proceedings of the Third International Conference on Non Associative Algebra and Its Applications held in Oviedo Spain July 12 17 1993 The conference brought together specialists from all over the world who work in this interesting and active field which is currently enjoying much attention All aspects of non associative algebra are covered Topics range from purely mathematical subjects to a wide spectrum of applications and from state of the art articles to overview papers This collection will point the way for further research for many years to come The volume is of interest to researchers in mathematics as well as those whose work involves the application of non associative algebra in such areas as physics biology and genetics

Canadian Journal of Mathematics, 1991-06

Representation Theories and Algebraic Geometry A. Broer, 2013-03-09 The 12 lectures presented in Representation Theories and Algebraic Geometry focus on the very rich and powerful interplay between algebraic geometry and the representation theories of various modern mathematical structures such as reductive groups quantum groups Hecke algebras restricted Lie algebras and their companions This interplay has been extensively exploited during recent years resulting in great progress in these representation theories Conversely a great stimulus has been given to the development of such geometric theories as D modules perverse sheaves and equivariant intersection cohomology The range of topics covered is wide from equivariant Chow groups decomposition classes and Schubert varieties multiplicity free actions convolution algebras standard monomial theory and canonical bases to annihilators of quantum Verma modules modular representation theory of Lie algebras and combinatorics of representation categories of Harish Chandra modules

Structure Theory Helmut Strade, 2017-04-24 The problem of classifying the finite dimensional simple Lie algebras over fields of characteristic $p > 0$ is a long standing one Work on this question has been directed by the Kostrikin Shafarevich Conjecture of 1966 which states that over an algebraically closed field of characteristic $p > 5$ a finite dimensional restricted simple Lie algebra is classical or of Cartan type This conjecture was proved for $p > 7$ by Block and Wilson in 1988 The generalization of the Kostrikin Shafarevich Conjecture for the general case of not necessarily restricted Lie algebras and $p > 7$ was announced in 1991 by Strade and Wilson and eventually proved by Strade in 1998 The final Block Wilson Strade Premet Classification Theorem is a landmark result of modern mathematics and can be formulated as follows Every simple finite dimensional simple Lie algebra over an algebraically closed field of characteristic $p > 3$ is of classical Cartan or Melikian type In the three volume book the author is assembling the

proof of the Classification Theorem with explanations and references The goal is a state of the art account on the structure and classification theory of Lie algebras over fields of positive characteristic This first volume is devoted to preparing the ground for the classification work to be performed in the second and third volumes The concise presentation of the general theory underlying the subject matter and the presentation of classification results on a subclass of the simple Lie algebras for all odd primes will make this volume an invaluable source and reference for all research mathematicians and advanced graduate students in algebra The second edition is corrected Contents Toral subalgebras in p envelopes Lie algebras of special derivations Derivation simple algebras and modules Simple Lie algebras Recognition theorems The isomorphism problem Structure of simple Lie algebras Pairings of induced modules Toral rank 1 Lie algebras **Encyclopaedia of Mathematics** M. Hazewinkel, 2013-11-11

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