

CONTEMPORARY MATHEMATICS

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Recent Developments In Infinite-Dimensional Lie Algebras and Conformal Field Theory

Stephen Berman
Paul Fendley
Yi-Zhi Huang
Kalkash Misra
Brian Parshall
Editors



American Mathematical Society

Recent Developments In Infinite Dimensional Lie Algebras And Conformal Field Theory

**Paul A Pearce, Anthony W Thomas, Alan
L Carey, W J Ellis**



Recent Developments In Infinite Dimensional Lie Algebras And Conformal Field Theory:

Recent Developments in Infinite-Dimensional Lie Algebras and Conformal Field Theory Stephen Berman, 2002
Because of its many applications to mathematics and mathematical physics the representation theory of infinite dimensional Lie and quantized enveloping algebras comprises an important area of current research This volume includes articles from the proceedings of an international conference Infinite Dimensional Lie Theory and Conformal Field Theory held at the University of Virginia Many of the contributors to the volume are prominent researchers in the field This conference provided an opportunity for mathematicians and physicists to interact in an active research area of mutual interest The talks focused on recent developments in the representation theory of affine quantum affine and extended affine Lie algebras and Lie superalgebras They also highlighted applications to conformal field theory integrable and disordered systems Some of the articles are expository and accessible to a broad readership of mathematicians and physicists interested in this area others are research articles that are appropriate for more advanced readers

Recent Developments in Lie Algebras, Groups and Representation Theory Kailash C. Misra, Daniel Ken Nakano, Brian Parshall, 2012 This book contains the proceedings of the 2009 2011 Southeastern Lie Theory Workshop Series held October 9 11 2009 at North Carolina State University May 22 24 2010 at the University of Georgia and June 1 4 2011 at the University of Virginia Some of the articles written by experts in the field survey recent developments while others include new results in Lie algebras quantum groups finite groups and algebraic groups

Recent Developments in Quantum Affine Algebras and Related Topics Naihuan Jing, Kailash C. Misra, 1999 This volume reflects the proceedings of the International Conference on Representations of Affine and Quantum Affine Algebras and Their Applications held at North Carolina State University Raleigh In recent years the theory of affine and quantum affine Lie algebras has become an important area of mathematical research with numerous applications in other areas of mathematics and physics Three areas of recent progress are the focus of this volume affine and quantum affine algebras and their generalizations vertex operator algebras and their representations and applications in combinatorics and statistical mechanics Talks given by leading international experts at the conference offered both overviews on the subjects and current research results The book nicely presents the interplay of these topics recently occupying centre stage in the theory of infinite dimensional Lie theory

Finite and Infinite Dimensional Analysis in Honor of Leonard Gross Hui-Hsiung Kuo, Ambar Sengupta, 2003 This book contains the proceedings of the special session in honor of Leonard Gross held at the annual Joint Mathematics Meetings in New Orleans LA The speakers were specialists in a variety of fields and many were Professor Gross's former Ph D students and their descendants Papers in this volume present results from several areas of mathematics They illustrate applications of powerful ideas that originated in Gross's work and permeate diverse fields Topics include stochastic partial differential equations white noise analysis Brownian motion Segal Bargmann analysis heat kernels and some applications The volume should be useful to graduate students and researchers It provides

perspective on current activity and on central ideas and techniques in the topics covered Conformal Field Theories and Tensor Categories Chengming Bai, Jürgen Fuchs, Yi-Zhi Huang, Liang Kong, Ingo Runkel, Christoph Schweigert, 2013-10-30 The present volume is a collection of seven papers that are either based on the talks presented at the workshop Conformal field theories and tensor categories held June 13 to June 17 2011 at the Beijing International Center for Mathematical Research Peking University or are extensions of the material presented in the talks at the workshop These papers present new developments beyond rational conformal field theories and modular tensor categories and new applications in mathematics and physics The topics covered include tensor categories from representation categories of Hopf algebras applications of conformal field theories and tensor categories to topological phases and gapped systems logarithmic conformal field theories and the corresponding non semisimple tensor categories and new developments in the representation theory of vertex operator algebras Some of the papers contain detailed introductory material that is helpful for graduate students and researchers looking for an introduction to these research directions The papers also discuss exciting recent developments in the area of conformal field theories tensor categories and their applications and will be extremely useful for researchers working in these areas **Kac-Moody Lie Algebras and Related Topics** Neelacanta Sthanumoorthy, Kailash C. Misra, 2004 This volume is the proceedings of the Ramanujan International Symposium on Kac Moody Lie algebras and their applications The symposium provided researchers in mathematics and physics with the opportunity to discuss new developments in this rapidly growing area of research The book contains several excellent articles with new and significant results It is suitable for graduate students and researchers working in Kac Moody Lie algebras their applications and related areas of research **Conformal Field Theory, Automorphic Forms and Related Topics** Winfried Kohnen, Rainer Weissauer, 2014-08-22 This book part of the series Contributions in Mathematical and Computational Sciences reviews recent developments in the theory of vertex operator algebras VOAs and their applications to mathematics and physics The mathematical theory of VOAs originated from the famous monstrous moonshine conjectures of J H Conway and S P Norton which predicted a deep relationship between the characters of the largest simple finite sporadic group the Monster and the theory of modular forms inspired by the observations of J MacKay and J Thompson The contributions are based on lectures delivered at the 2011 conference on Conformal Field Theory Automorphic Forms and Related Topics organized by the editors as part of a special program offered at Heidelberg University that summer under the sponsorship of the Mathematics Center Heidelberg MATCH *Recent Advances in Riemannian and Lorentzian Geometries* Krishan L. Duggal, Ramesh Sharma, 2003 This volume covers material presented by invited speakers at the AMS special session on Riemannian and Lorentzian geometries held at the annual Joint Mathematics Meetings in Baltimore Topics covered include classification of curvature related operators curvature homogeneous Einstein 4 manifolds linear stability instability singularity and hyperbolic operators of spacetimes spectral geometry of holomorphic manifolds cut loci of nilpotent Lie groups conformal geometry of almost

Hermitian manifolds and also submanifolds of complex and contact spaces This volume can serve as a good reference source and provide indications for further research It is suitable for graduate students and research mathematicians interested in differential geometry

Introduction to Vertex Operator Algebras and Their Representations James Lepowsky, Haisheng Li, 2012-12-06 Introduces the fundamental theory of vertex operator algebras and its basic techniques and examples Begins with a detailed presentation of the theoretical foundations and proceeds to a range of applications Includes a number of new original results and brings fresh perspective to important works of many other researchers in algebra lie theory representation theory string theory quantum field theory and other areas of math and physics

Noncompact Semisimple Lie Algebras and Groups Vladimir K. Dobrev, 2016-09-12 With applications in quantum field theory elementary particle physics and general relativity this two volume work studies invariance of differential operators under Lie algebras quantum groups superalgebras including infinite dimensional cases Schrödinger algebras applications to holography This first volume covers the general aspects of Lie algebras and group theory supplemented by many concrete examples for a great variety of noncompact semisimple Lie algebras and groups Contents Introduction Lie Algebras and Groups Real Semisimple Lie Algebras Invariant Differential Operators Case of the Anti de Sitter Group Conformal Case in 4D Kazhdan Lusztig Polynomials Subsingular Vectors and Conditionally Invariant Equations Invariant Differential Operators for Noncompact Lie Algebras Parabolically Related to Conformal Lie Algebras Multilinear Invariant Differential Operators from New Generalized Verma Modules Bibliography Author Index Subject Index

Vertex Operator Algebras in Mathematics and Physics Stephen Berman, 2003 Vertex operator algebras are a class of algebras underlying a number of recent constructions results and themes in mathematics These algebras can be understood as string theoretic analogues of Lie algebras and of commutative associative algebras They play fundamental roles in some of the most active research areas in mathematics and physics Much recent progress in both physics and mathematics has benefited from cross pollination between the physical and mathematical points of view This book presents the proceedings from the workshop Vertex Operator Algebras in Mathematics and Physics held at The Fields Institute It consists of papers based on many of the talks given at the conference by leading experts in the algebraic geometric and physical aspects of vertex operator algebra theory The book is suitable for graduate students and research mathematicians interested in the major themes and important developments on the frontier of research in vertex operator algebra theory and its applications in mathematics and physics

Lie Algebras, Lie Superalgebras, Vertex Algebras and Related Topics Kailash C. Misra, Daniel K. Nakano, Brian J. Parshall, 2016-06-28 This book contains the proceedings of the 2012 2014 Southeastern Lie Theory Workshop Series held at North Carolina State University in April 2012 at College of Charleston in December 2012 at Louisiana State University in May 2013 and at University of Georgia in May 2014 Some of the articles by experts in the field survey recent developments while others include new results in representations of Lie algebras and quantum groups vertex operator algebras and Lie superalgebras

Chiral Algebras

Alexander Beilinson, Vladimir Drinfeld, 2025-06-17 Chiral algebras form the primary algebraic structure of modern conformal field theory. Each chiral algebra lives on an algebraic curve and in the special case where this curve is the affine line, chiral algebras invariant under translations are the same as well known and widely used vertex algebras. The exposition of this book covers the following topics: the classical counterpart of the theory which is an algebraic theory of non-linear differential equations and their symmetries; the local aspects of the theory of chiral algebras including the study of some basic examples such as the chiral algebras of differential operators; the formalism of chiral homology treating the space of conformal blocks of the conformal field theory which is a quantum counterpart of the space of the global solutions of a differential equation. The book will be of interest to researchers working in algebraic geometry and its applications to mathematical physics and representation theory.

Additional Symmetries and Exactly Solvable Models in Two Dimensional Conformal Field Theory S. L. Lukyanov, V. A. Fateev, 1991

Topics in Algebraic and Noncommutative Geometry Ruth Ingrid Michler, 2003 This book presents the proceedings of two conferences: Resolution des singularités et géométrie non commutative and the Annapolis algebraic geometry conference. Research articles in the volume cover various topics of algebraic geometry including the theory of Jacobians, singularities, applications to cryptography and more. The book is suitable for graduate students and research mathematicians interested in algebraic geometry.

Krichever-Novikov Type Algebras Martin Schlichenmaier, 2014-08-19 Krichever and Novikov introduced certain classes of infinite dimensional Lie algebras to extend the Virasoro algebra and its related algebras to Riemann surfaces of higher genus. The author of this book generalized and extended them to a more general setting needed by the applications. Examples of applications are Conformal Field Theory, Wess-Zumino-Novikov-Witten models, moduli space problems, integrable systems, Lax operator algebras and deformation theory of Lie algebra. Furthermore, they constitute an important class of infinite dimensional Lie algebras which, due to their geometric origin, are still manageable. This book gives an introduction for the newcomer to this exciting field of ongoing research in mathematics and will be a valuable source of reference for the experienced researcher. Besides the basic constructions and results, also applications are presented.

Confronting The Infinite - Proceedings Of A Conference In Celebration Of The Years Of H S Green And C A Hurst Paul A Pearce, Anthony W Thomas, Alan L Carey, W J Ellis, 1995-10-31 In 1992, students of Bert Green and Angus Hurst conceived the idea of a meeting to commemorate their contributions to Mathematical Physics and to celebrate their passing the milestone of three score years and ten. In designing the scientific program, there were two objectives. The first was to cover the full breadth of research in Mathematical Physics at Adelaide University since the founding of the Department of Mathematical Physics with the appointment of Professor Green in 1952. The second was to seek original contributions in areas of current interest and rapid development. The underlying theme was the interaction of mathematics and physics in the key areas of relativity, quantum field theory and statistical physics. The contributions to this volume consist of papers describing the historical development of ideas in which Adelaide mathematical

physicists have played a role surveys research announcements and of course original research The influence of Bert and Angas on the research results and themes developed in this volume is easily seen through the historical or survey material or because some papers describe work in which one or other is a past or indeed present collaborator

Selected Topics In Quantum Field Theory And Mathematical Physics J Fischer, J Niederle, 1990-05-01

Algebraic Number Theory and Algebraic Geometry S. V. Vostokov, Yuri Zarhin, 2002 A N Parshin is a world renowned mathematician who has made significant contributions to number theory through the use of algebraic geometry Articles in this volume present new research and the latest developments in algebraic number theory and algebraic geometry and are dedicated to Parshin's sixtieth birthday Well known mathematicians contributed to this volume including among others F Bogomolov C Deninger and G Faltings The book is intended for graduate students and research mathematicians interested in number theory algebra and algebraic geometry

New Symmetry Principles in Quantum Field Theory J. Frölich, Gerard 't Hooft, Arthur Jaffe, Gerhard Mack, Pronob K. Mitter, Raymond Stora, 2012-12-06

Soon after the discovery of quantum mechanics group theoretical methods were used extensively in order to exploit rotational symmetry and classify atomic spectra And until recently it was thought that symmetries in quantum mechanics should be groups But it is not so There are more general algebras equipped with suitable structure which admit a perfectly conventional interpretation as a symmetry of a quantum mechanical system In any case a trivial representation of the algebra is defined and a tensor product of representations But in contrast with groups this tensor product needs to be neither commutative nor associative Quantum groups are special cases in which associativity is preserved The exploitation of such Quantum Symmetries was a central theme at the Advanced Study Institute Introductory lectures were presented to familiarize the participants with the algebras which can appear as symmetries and with their properties Some models of local field theories were discussed in detail which have some such symmetries in particular conformal field theories and their perturbations Lattice models provide many examples of quantum theories with quantum symmetries They were also covered at the school Finally the symmetries which are the cause of the solubility of integrable models are also quantum symmetries of this kind Some such models and their nonlocal conserved currents were discussed

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