

CONTEMPORARY MATHEMATICS

287

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

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American Mathematical Society

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Runkel, Christoph Schweigert**

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

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

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

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

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

Vertex Operator Algebras in Mathematics and Physics Stephen Berman, 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

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

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Table of Contents Recent Developments In Infinite Dimensional Lie Algebras And Conformal Field Theory

1. Understanding the eBook Recent Developments In Infinite Dimensional Lie Algebras And Conformal Field Theory
 - The Rise of Digital Reading Recent Developments In Infinite Dimensional Lie Algebras And Conformal Field Theory
 - Advantages of eBooks Over Traditional Books
2. Identifying Recent Developments In Infinite Dimensional Lie Algebras And Conformal Field Theory
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Recent Developments In Infinite Dimensional Lie Algebras And Conformal Field Theory
 - User-Friendly Interface
4. Exploring eBook Recommendations from Recent Developments In Infinite Dimensional Lie Algebras And Conformal Field Theory
 - Personalized Recommendations
 - Recent Developments In Infinite Dimensional Lie Algebras And Conformal Field Theory User Reviews and Ratings
 - Recent Developments In Infinite Dimensional Lie Algebras And Conformal Field Theory and Bestseller Lists
5. Accessing Recent Developments In Infinite Dimensional Lie Algebras And Conformal Field Theory Free and Paid eBooks

- Recent Developments In Infinite Dimensional Lie Algebras And Conformal Field Theory Public Domain eBooks
 - Recent Developments In Infinite Dimensional Lie Algebras And Conformal Field Theory eBook Subscription Services
 - Recent Developments In Infinite Dimensional Lie Algebras And Conformal Field Theory Budget-Friendly Options
6. Navigating Recent Developments In Infinite Dimensional Lie Algebras And Conformal Field Theory eBook Formats
- ePub, PDF, MOBI, and More
 - Recent Developments In Infinite Dimensional Lie Algebras And Conformal Field Theory Compatibility with Devices
 - Recent Developments In Infinite Dimensional Lie Algebras And Conformal Field Theory Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Recent Developments In Infinite Dimensional Lie Algebras And Conformal Field Theory
 - Highlighting and Note-Taking Recent Developments In Infinite Dimensional Lie Algebras And Conformal Field Theory
 - Interactive Elements Recent Developments In Infinite Dimensional Lie Algebras And Conformal Field Theory
8. Staying Engaged with Recent Developments In Infinite Dimensional Lie Algebras And Conformal Field Theory
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Recent Developments In Infinite Dimensional Lie Algebras And Conformal Field Theory
9. Balancing eBooks and Physical Books Recent Developments In Infinite Dimensional Lie Algebras And Conformal Field Theory
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Recent Developments In Infinite Dimensional Lie Algebras And Conformal Field Theory
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time

11. Cultivating a Reading Routine Recent Developments In Infinite Dimensional Lie Algebras And Conformal Field Theory
 - Setting Reading Goals Recent Developments In Infinite Dimensional Lie Algebras And Conformal Field Theory
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Recent Developments In Infinite Dimensional Lie Algebras And Conformal Field Theory
 - Fact-Checking eBook Content of Recent Developments In Infinite Dimensional Lie Algebras And Conformal Field Theory
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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