

New Directions in Hopf Algebras

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New Directions In Hopf Algebras

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Oystaeyen**



New Directions In Hopf Algebras:

New Directions in Hopf Algebras Susan Montgomery, Hans-Jurgen Schneider, 2002-05-06 Hopf algebras have important connections to quantum theory Lie algebras knot and braid theory operator algebras and other areas of physics and mathematics They have been intensely studied in the past in particular the solution of a number of conjectures of Kaplansky from the 1970s has led to progress on the classification of semisimple Hopf algebras and on the structure of pointed Hopf algebras Among the topics covered are results toward the classification of finite dimensional Hopf algebras semisimple and non semisimple as well as what is known about the extension theory of Hopf algebras Some papers consider Hopf versions of classical topics such as the Brauer group while others are closer to work in quantum groups The book also explores the connections and applications of Hopf algebras to other fields

Hopf Algebras David E Radford, 2011-12-28 The book provides a detailed account of basic coalgebra and Hopf algebra theory with emphasis on Hopf algebras which are pointed semisimple quasitriangular or are of certain other quantum groups It is intended to be a graduate text as well as a research monograph

Hopf Algebras Jeffrey Bergen, Stefan Catoiu, William Chin, 2004-01-28 This volume publishes key proceedings from the recent International Conference on Hopf Algebras held at DePaul University Chicago Illinois With contributions from leading researchers in the field this collection deals with current topics ranging from categories of infinitesimal Hopf modules and bimodules to the construction of a Hopf algebraic Morita invariant It uses the newly introduced theory of bi Frobenius algebras to investigate a notion of group like algebras and summarizes results on the classification of Hopf algebras of dimension pq It also explores pre Lie dendriform and Nichols algebras and discusses support cones for infinitesimal group schemes

New Directions and Applications in Control Theory Wijesuriya P. Dayawansa, Anders Lindquist, Yishao Zhou, 2005-08-31 This volume contains a collection of papers in control theory and applications presented at a conference in honor of Clyde Martin on the occasion of his 60th birthday held in Lubbock Texas November 14 15 2003

Algebraic Topology: Applications and New Directions Ulrike Tillmann, Søren Galatius, Dev Sinha, 2014-07-14 This volume contains the proceedings of the Stanford Symposium on Algebraic Topology Applications and New Directions held from July 23 27 2012 at Stanford University Stanford California The symposium was held in honor of Gunnar Carlsson Ralph Cohen and Ib Madsen who celebrated their 60th and 70th birthdays that year It showcased current research in Algebraic Topology reflecting the celebrants broad interests and profound influence on the subject The topics varied broadly from stable equivariant homotopy theory to persistent homology and application in data analysis covering topological aspects of quantum physics such as string topology and geometric quantization examining homology stability in algebraic and geometric contexts including algebraic theory and the theory of operads

Hopf Algebras in Noncommutative Geometry and Physics Stefaan Caenepeel, Fred Van Oystaeyen, 2019-05-07 This comprehensive reference summarizes the proceedings and keynote presentations from a recent conference held in Brussels Belgium Offering 1155 display equations

this volume contains original research and survey papers as well as contributions from world renowned algebraists It focuses on new results in classical Hopf algebras as well as the

Locally Compact Quantum Groups and Groupoids Leonid Vainerman, 2008-08-22 The book contains seven refereed research papers on locally compact quantum groups and groupoids by leading experts in the respective fields These contributions are based on talks presented on the occasion of the meeting between mathematicians and theoretical physicists held in Strasbourg from February 21 to February 23 2002 Topics covered are various constructions of locally compact quantum groups and their multiplicative unitaries duality theory for locally compact quantum groups combinatorial quantization of flat connections associated with $SL(2, \mathbb{C})$ quantum groupoids especially coming from Depth 2 Extensions of von Neumann algebras C^* algebras and Rings Many mathematical results are motivated by problems in theoretical physics Historical remarks set the results presented in perspective Directed at research mathematicians and theoretical physicists as well as graduate students the volume will give an overview of a field of research in which great progress has been achieved in the last few years with new ties to many other areas of mathematics and physics

Quantum Symmetries in Theoretical Physics and Mathematics Robert Coquereaux, 2002 This volume presents articles from several lectures presented at the school on Quantum Symmetries in Theoretical Physics and Mathematics held in Bariloche Argentina The various lecturers provided significantly different points of view on several aspects of Hopf algebras quantum group theory and noncommutative differential geometry ranging from analysis geometry and algebra to physical models especially in connection with integrable systems and conformal field theories Primary topics discussed in the text include subgroups of quantum $SU(N)$ quantum ADE classifications and generalized Coxeter systems modular invariance defects and boundaries in conformal field theory finite dimensional Hopf algebras Lie bialgebras and Belavin Drinfeld triples real forms of quantum spaces perturbative and non perturbative Yang Baxter operators braided subfactors in operator algebras and conformal field theory and generalized d cohomologies

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

New Developments in Lie Theory and Geometry Carolyn Gordon, 2009 This volume is an outgrowth of the Sixth Workshop on Lie Theory and Geometry held in the province of Cordoba Argentina in November 2007 The representation theory and structure theory of Lie groups play a pervasive role throughout mathematics and physics Lie groups are tightly intertwined with geometry and each stimulates developments in the other The aim of this volume is to bring to a larger audience the mutually beneficial interaction between Lie theorists and geometers that animated the workshop Two prominent themes of the representation theoretic articles are Gelfand pairs and the representation theory of real reductive Lie groups Among the more geometric articles are an exposition of major recent developments on noncompact homogeneous Einstein manifolds and aspects of inverse spectral geometry presented in settings accessible to readers new to the area

Unveiling the Power of Verbal Beauty: An Mental Sojourn through **New Directions In Hopf Algebras**

In a world inundated with screens and the cacophony of instantaneous conversation, the profound energy and mental resonance of verbal artistry often disappear in to obscurity, eclipsed by the regular barrage of noise and distractions. Yet, situated within the musical pages of **New Directions In Hopf Algebras**, a charming perform of literary splendor that impulses with organic emotions, lies an wonderful trip waiting to be embarked upon. Written by way of a virtuoso wordsmith, this enchanting opus instructions visitors on an emotional odyssey, gently revealing the latent potential and profound affect embedded within the intricate web of language. Within the heart-wrenching expanse of this evocative examination, we will embark upon an introspective exploration of the book is main styles, dissect their charming writing style, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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