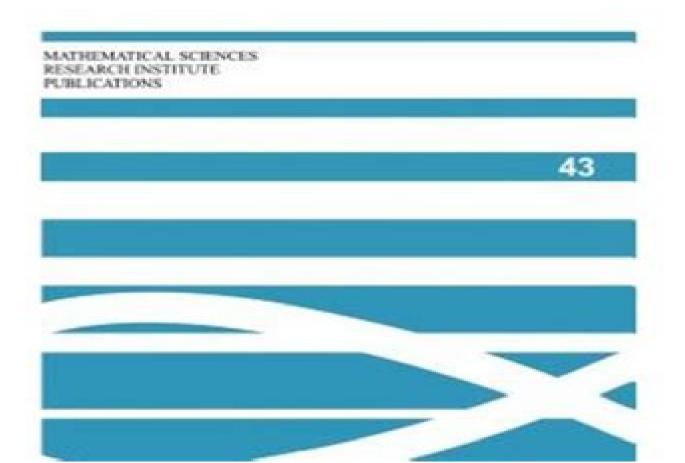
# New Directions in Hopf Algebras

S. Montgomery H.-J. Schneider



# **New Directions In Hopf Algebras**

Stefaan Caenepeel,Fred Van Oystaeyen

# **New Directions In Hopf Algebras:**

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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 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 Quantum Symmetries in Theoretical Physics and Mathematics Robert Coquereaux, 2002 This volume physics 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 guantum 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

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