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# New Directions In Hopf Algebras

AMS Proceedings of the American Mathematical Society. New Directions in Hopf Algebras Susan Montgomery. Hopf Algebras 583 Pages World Scientific. On the classification of finite dimensional pointed Hopf. New Directions in Hopf Algebras MSRI. Hopf algebras for physics at the Planck scale. Hopf C algebras. On pointed Hopf algebras associated with the symmetric groups. New directions in Hopf algebras CORE. New Directions in Hopf Algebras Susan Montgomery. New Trends in Hopf Algebra Theory Edited by. MSRI Publications Volume 43. Coverings of graded pointed Hopf algebras ScienceDirect. Tensor Categories and Hopf Algebras. Symmetries in yetter drinfeld categories over weak hopf. New Directions in Hopf Algebras by Susan Montgomery Hans. Cambridge University Press 978 0 521 81512 3 New. Álgebras de Hopf trançadas CORE. Braided Hopf algebra Wikipedia. math 0110136 Pointed Hopf algebras arXiv. Unimodular graded Poisson Hopf algebras Enlighten. Abstract Algebra Free Books at EBD. POINTED HOPF ACTIONS ON FIELDS I SpringerLink. Cambridge University Press 978 1 107 02680 3 New. CiteSeerX ? Pointed Hopf algebras. Quasitriangular Hopf algebra Wikipedia. Description ? Categorical Galois Theory new directions. Hopf Algebras 583 Pages World Scientific. New Directions in Hopf Algebras Mathematical Sciences. Pointed Hopf algebras Harvard University. Andruskiewitsch N From racks to pointed Hopf algebras. New Hopf algebras arising from the generalized lifting. Finite dimensional Hopf algebras arising from quantized. ON THE CLASSIFICATION OF SEMISIMPLE HOPF ALGEBRAS. M Ram Murty Queen's University Kin yurinsha com. PDF ON THE CLASSIFICATION OF SEMISIMPLE HOPF ALGEBRAS. Nicolás Andruskiewitsch Google Scholar Citations. From racks to pointed Hopf algebras Request PDF. POINTED HOPF ALGEBRAS OVER SOME SPORADIC SIMPLE GROUPS. triangular Hopf algebra in nLab. AMS Proceedings of the American Mathematical Society. New directions in Hopf algebras Book 2002 WorldCat org. New Directions in Hopf Algebras Clouston and Hall. Axioms Special Issue Hopf Algebras Quantum Groups and. Pasto Street Weak Hopf monoids in braided monoidal. Mathematical Sciences Research Institute Publications New

**AMS Proceedings of the American Mathematical Society**

**November 21st, 2019 - Susan Montgomery Hopf algebras and their actions on rings CBMS Regional Conference Series in Mathematics vol 82 Published for the Conference Board of the Mathematical Sciences Washington DC by the American Mathematical Society Providence RI 1993'**

**'New Directions in Hopf Algebras Susan Montgomery**

**October 6th, 2019 - New Directions in Hopf Algebras by Susan Montgomery 9780521124317 available at Book Depository with free delivery worldwide" Hopf Algebras 583 Pages World Scientific**

July 2nd, 2019 - Hopf algebras 215 216 The paper by Drinfel'd 44 in 1986 on quantum groups opened the 'oodgates for applications of Hopf algebras to physics invariant theory for knots and links and representations closely connected to Lie theory The Hopf algebras involved are referred to as quantum groups a term still lacking formal de'nition'

**'On the classification of finite dimensional pointed Hopf**

**December 23rd, 2019 - Since these Hopf algebras turn out to be deformations of a natural class of generalized small quantum groups our result can be read as an axiomatic description of generalized small quantum groups Show hide bibliography for this article" New Directions in Hopf Algebras MSRI**

**November 23rd, 2019 - New Directions in Hopf Algebras MSRI Publications Volume 43 2002 Finite Quantum Groupoids and Their Applications DMITRI NIKSHYCH AND LEONID VAINERMAN Abstract We give a survey of the theory of ?nite quantum groupoids weak Hopf algebras including foundations of the theory and applications to ?nite depth subfactors'**

**'Hopf algebras for physics at the Planck scale**

**December 25th, 2019 - Hopf algebras for physics at the Planck scale Shahn Majid Jefferson Laboratories Harvard University Cambridge MA 02138 USA Received 19 November 1987 in final form 14 June 1988 Abstract We apply ideas of non commutative geometry to reformulate the classical and quantum mechanics of a particle moving on a homogeneous spacetime'**

**'Hopf C algebras**

*April 2nd, 2018 - In the literature there existed essentially two directions Some authors already used the name Hopf C? algebra for a pair of a C? algebra with a comultiplication see e g 2 20 and 14 This is not very appropriate because the antipode is necessary to distinguish a Hopf algebra from a bialgebra'*

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**'On pointed Hopf algebras associated with the symmetric groups**

**December 11th, 2019 - Let  $G$  be the symmetric group equation It is an important open problem whether the dimension of the Nichols algebra equation is finite when equation is the class of the transpositions and ?is"****New directions in Hopf algebras CORE**  
August 4th, 2018 - New directions in Hopf algebras By H J Schneider and Susan Montgomery Topics Mathematical Physics and Mathematics'

**'New Directions in Hopf Algebras Susan Montgomery**

October 24th, 2019 - New Directions in Hopf Algebras by Susan Montgomery 9780521815123 available at Book Depository with free delivery worldwide'

**'New Trends in Hopf Algebra Theory Edited by**

November 18th, 2019 - New Trends in Hopf Algebra Theory Description This volume presents the proceedings from the Colloquium on Quantum Groups and Hopf Algebras held in Cordoba Argentina in 1999 The meeting brought together researchers who discussed recent developments in Hopf algebras one of the most important being the influence of quantum groups'

**'MSRI Publications Volume 43**

November 25th, 2019 - MSRI Publications Volume 43 New Directions in Hopf Algebras Edited by Susan Montgomery and Hans Jürgen Schneider NOTE Many of the papers are preceded by a blank page'

**'Coverings of graded pointed Hopf algebras ScienceDirect**

November 3rd, 2019 - When  $A \neq 0$   $A \neq R$   $kG$  and  $A \neq 0$   $A \neq R$   $kG$  are coradically graded pointed Hopf algebras which are bosonizations of the braided graded Hopf algebra  $R$  as in and  $f: G \rightarrow G$  is a group surjection we say that the Hopf algebra map  $F: A \rightarrow A$  is a Hopf covering if  $F(r)g = rf(g)$  for all  $r \in R$ '

**'Tensor Categories and Hopf Algebras**

December 3rd, 2019 - This volume contains the proceedings of the scientific session 'Hopf Algebras and Tensor Categories' held from July 27-28 2017 at the Mathematical Congress of the Americas in Montreal Canada Papers highlight the latest advances and research directions in the theory of tensor categories and Hopf algebras'

**'Symmetries in yetter drinfeld categories over weak hopf**

December 26th, 2019 - New Directions in Hopf Algebras Math Sci Res Inst Publ 43 Cambridge Cambridge Univ Press 2002 211 262  
5 Yetter D N Quantum groups and representations of monoidal categories Math Proc Cambridge Philos Soc 1990 108 261 290 6  
Bohm G Nill F Szlachanyi K Weak Hopf algebras I Integral theory and C structure'

**'New Directions in Hopf Algebras by Susan Montgomery Hans**

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**'Cambridge University Press 978 0 521 81512 3 New**

October 1st, 2019 - 978 0 521 81512 3 New Directions in Hopf Algebras Edited by Susan Montgomery and Hans Jürgen Schneider  
Excerpt More information Created Date'

**'Álgebras de Hopf trançadas CORE**

September 5th, 2018 - 2001 Hopf Algebras An Introduction 2010 On the classification of finite dimensional Pointed Hopf Algebras 2002 Pointed Hopf Algebras in 'New Directions in Hopf Algebras' 2000 Pointed indecomposable Hopf algebras over Coxeter groups 1995'

**'Braided Hopf algebra Wikipedia**

October 8th, 2019 - In mathematics a braided Hopf algebra is a Hopf algebra in a braided monoidal category The most common braided Hopf algebras are objects in a Yetter-Drinfeld category of a Hopf algebra  $H$  particularly the Nichols algebra of a braided vectorspace in that category'

**'math 0110136 Pointed Hopf algebras arXiv**

September 3rd, 2019 - Abstract This is a survey on pointed Hopf algebras over algebraically closed fields of characteristic 0 In New

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**directions in Hopf algebras MSRI series Cambridge Univ Press 1 68 2002 Cite as arXiv math 0110136 math QA or arXiv math 0110136v1 math QA for this version'**

**'Unimodular graded Poisson Hopf algebras Enlighten**

November 25th, 2019 - Let  $A$  be a Poisson Hopf algebra over an algebraically closed field of characteristic zero. If  $A$  is finitely generated and connected graded as an algebra and its Poisson bracket is homogeneous of degree  $d \neq 0$  then  $A$  is unimodular that is the modular derivation of  $A$  is zero. This is a Poisson analogue of a recent result concerning Hopf

**'Abstract Algebra Free Books at EBD**

December 27th, 2019 - 12023 views New Directions in Hopf Algebras by S Montgomery H Schneider Cambridge University Press 2002 Hopf algebras have important connections to quantum theory Lie algebras knot and braid theory operator algebras and other areas'

**'POINTED HOPF ACTIONS ON FIELDS I SpringerLink**

November 23rd, 2019 - N Andruskiewitsch H J Schneider *Lifting of Nichols algebras of type A 2 and pointed Hopf algebras of order p 4 in Hopf Algebras and Quantum Groups Brussels 1998 Lecture Notes in Pure and Appl Math Vol 209 Dekker New York 2000 pp 1 14 Google Scholar'*

**'Cambridge University Press 978 1 107 02680 3 New**

November 5th, 2019 - 978 1 107 02680 3 New Directions in Hopf Algebras Edited by Susan Montgomery and Hans Jürgen Schneider Frontmatter More information Created Date" CiteSeerX ? Pointed Hopf algebras

November 29th, 2019 - CiteSeerX Document Details Isaac Council Lee Giles Pradeep Teregowda Abstract This is a survey on pointed Hopf algebras over algebraically closed fields of characteristic 0. We propose to classify pointed Hopf algebras  $A$  by first determining the graded Hopf algebra  $gr A$  associated to the coradical filtration of  $A$ . The  $A_0$  coinvariants'

**'Quasitriangular Hopf algebra Wikipedia**

October 11th, 2019 - Hopf algebras and their actions on rings Regional Conference Series in Mathematics 82 Providence RI American Mathematical Society ISBN 0 8218 0738 2 Zbl 0793 16029 Montgomery Susan Schneider Hans Jürgen 2002 New directions in Hopf algebras Mathematical Sciences Research Institute Publications 43 Cambridge University Press'

**'Description ? Categorical Galois Theory new directions**

November 27th, 2019 - Since everything is now embedded in the category of comodules of a Hopf algebra the result would be internalised in this category. Instead of going this path we propose to consider a different functor which leads to a new Galois context and which will give a new perspective into both categorical Galois theories and the theory of Hopf algebras'

**'Hopf Algebras 583 Pages World Scientific**

September 16th, 2019 - November 5 2011 7 30 World Scientific Book 9in x 6in A Hopf 540 Hopf Algebras 49 Etingof P and Gelaki S 2002 On families of triangular Hopf algebras" New Directions in Hopf Algebras Mathematical Sciences

September 4th, 2019 - This timely collection of expository papers highlights progress and new directions in Hopf algebras. Arising from the MSRI workshop on Hopf Algebras in October 1999 some papers consider Hopf versions of classical topics such as the Brauer group while others are closer to recent work in quantum groups'

**'Pointed Hopf algebras Harvard University**

November 13th, 2017 - Abstract This is a survey on pointed Hopf algebras over algebraically closed fields of characteristic 0. We propose to classify pointed Hopf algebras  $A$  by first" Andruskiewitsch N From racks to pointed Hopf algebras

December 15th, 2019 - A fundamental step in the classification of finite dimensional complex pointed Hopf algebras is the determination of all finite dimensional Nichols algebras of braided vector spaces arising from groups. The most important class of braided vector spaces arising from groups is the class of braided vector spaces  $(X, q)$  where  $X$  is a rack and  $q$ '

**'New Hopf algebras arising from the generalized lifting**

November 26th, 2019 - to produce new examples of Hopf algebras and to discover new Nichols algebras through the process. In this talk we will show new examples of Hopf algebras and Nichols algebras which arises from the analysis of the cases when the Hopf algebra generated by the coradical is isomorphic to the dual of a Radford algebra. We will discuss also briefly "Finite dimensional Hopf algebras arising from quantized

December 10th, 2019 - by Nicolás Andruskiewitsch Hans Jürgen Schneider In ?New directions in Hopf algebras? MSRI series

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**Cambridge Univ 2002 Abstract This is a survey on pointed Hopf algebras over algebraically closed fields of characteristic 0'**  
**'ON THE CLASSIFICATION OF SEMISIMPLE HOPF ALGEBRAS**

**December 17th, 2019 - Hopf algebras appeared in the early 60's from two apparently different directions algebraic topology and algebraic groups that interacted afterwards A nice survey about the beginnings of Hopf algebras is 2 The publication of Sweedlers book 68 in 1969 was the starting point"**M Ram Murty Queen's University Kin yurinsha com

**December 12th, 2019 - This volume contains the proceedings of the scientific session "Hopf Algebras and Tensor Categories" held from July 27 28 2017 at the Mathematical Congress of the Americas in Montreal Canada Papers highlight the latest advances and research directions in the theory of tensor categories and Hopf algebras'**

**'PDF ON THE CLASSIFICATION OF SEMISIMPLE HOPF ALGEBRAS**

**December 24th, 2019 - This paper develops a theory of crossed products and inner weak actions of arbitrary Hopf algebras on noncommutative algebras The theory covers the usual examples of inner automorphisms and derivations and in addition is general enough to include "inner" group gradings of algebras'**

**'Nicolás Andruskiewitsch Google Scholar Citations**

*November 28th, 2019 - New citations to this author New articles related to this author s research Email address for updates New directions in Hopf algebras 43 1 68 2002 391 Hopf Algebras of Order  $p^2$  and Braided Hopf Algebras of Order  $p^N$  Andruski Journal of Algebra 199"From racks to pointed Hopf algebras Request PDF*

*November 23rd, 2019 - Nichols algebras Hopf algebras in braided categories with distinguished properties were discovered several times They appeared for the first time in the thesis of W Nichols 72 aimed to construct new examples of Hopf algebras In this same paper the small quantum group  $u_q sl_3$  with  $q$  a primitive cubic root of one was introduced"***POINTED HOPF ALGEBRAS OVER SOME SPORADIC SIMPLE GROUPS**

**December 4th, 2019 - POINTED HOPF ALGEBRAS OVER SOME SPORADIC SIMPLE GROUPS N ANDRUSKIEWITSCH F ANTINO F M GRAÑA L VENDRAMIN Abstract Any finite dimensional complex pointed Hopf algebra with group of group likes isomorphic to a sporadic group  $G$  where  $G$  is either the Mathieu groups  $M_{22}$  or  $M_{24}$  the Janko groups  $J_1$   $J_2$  or  $J_3$  the Suzuki or the Held'**

**'triangular Hopf algebra in nLab**

**November 23rd, 2019 - Shlomo Gelaki On the classification of finite dimensional triangular Hopf algebras New directions in Hopf algebras MSRI publications volume 43 2002 Wikipedia Quasitriangular Hopf algebra Nicolas Andruskiewitsch Pavel Etingof Shlomo Gelaki Triangular Hopf algebras with the Chevalley property arXiv math 0008232'**

**'AMS Proceedings of the American Mathematical Society**

**November 24th, 2019 - Abstract We prove the quasi Hopf algebra version of the Nichols Zoeller theorem A finite dimensional quasi Hopf algebra is free over any quasi Hopf subalgebra References Enhancements On Off What s this'**

**'New directions in Hopf algebras Book 2002 WorldCat org**

**November 29th, 2019 - These articles form a broad survey of this exciting field Topics include pointed Hopf algebras triangular Hopf algebras Hopf algebra extensions and cohomology quantum groups and groupoids Read more'**

**'New Directions in Hopf Algebras Clouston and Hall**

**December 3rd, 2019 - This timely collection of expository papers by leading researchers in the field highlights progress and new directions in Hopf algebras The volume arises from the MSRI workshop on Hopf Algebras in October 1999 where many exciting recent developments were discussed'**

**'Axioms Special Issue Hopf Algebras Quantum Groups and**

**June 30th, 2012 - Special Issue Hopf Algebras Quantum Groups and Yang Baxter Equations Special Issue Editors Special Issue We would like to gather together both relevant reviews with historical notes open problems or research directions and research papers on the new developments of the Yang Baxter equations Dr Florin Felix Nichita Guest Editor"Pasto Street Weak Hopf monoids in braided monoidal**

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November 15th, 2019 - Dynamical quantum groups at roots of 1 Etingof Pavel and Nikshych Dmitri Duke Mathematical Journal 2001 Hopf cyclic cohomology in braided monoidal categories Khalkhali Masoud and Pourkia Arash Homology Homotopy and Applications 2010'

**'Mathematical Sciences Research Institute Publications New**

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