

**Quantum linear groups  
and  
representations of  $GL_n(\mathbb{F}_q)$**

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# Quantum Linear Groups

**Fanzhang Li, Li Zhang, Zhao Zhang**



## Quantum Linear Groups:

**Quantum Linear Groups and Representations of  $GL_n(\mathbb{F}_q)$**  Jonathan Brundan, Richard Dipper, Aleksandr Sergeevich Kleshchëv, 2001 We give a self contained account of the results originating in the work of James and the second author in the 1980s relating the representation theory of  $GL_n(\mathbb{F}_q)$  over fields of characteristic coprime to  $q$  to the representation theory of quantum  $GL_n$  at roots of unity The new treatment allows us to extend the theory in several directions First we prove a precise functorial connection between the operations of tensor product in quantum  $GL_n$  and Harish Chandra induction in finite  $GL_n$  This allows us to obtain a version of the recent Morita theorem of Cline Parshall and Scott valid in addition for  $p$  singular classes From that we obtain simplified treatments of various basic known facts such as the computation of decomposition numbers and blocks of  $GL_n(\mathbb{F}_q)$  from knowledge of the same for the quantum group and the non defining analogue of Steinberg's tensor product theorem We also easily obtain a new double centralizer property between  $GL_n(\mathbb{F}_q)$  and quantum  $GL_n$  generalizing a result of Takeuchi Finally we apply the theory to study the affine general linear group following ideas of Zelevinsky in characteristic zero We prove results that can be regarded as the modular analogues of Zelevinsky's and Thoma's branching rules Using these we obtain a new dimension formula for the irreducible cross characteristic representations of  $GL_n(\mathbb{F}_q)$  expressing their dimensions in terms of the characters of irreducible modules over the quantum group

**Quantum Linear Groups** Brian Parshall, 1991

**Quantum Linear Groups** Brian Parshall, Jian-pan Wang, 1991-01-01 This volume begins with a general discussion of the theory of quantum groups The authors view the theory as a natural extension of the theory of affine group schemes They establish a number of foundational results including the theory of induced representations and spectral sequences for quantum group cohomology They then apply these results to give a detailed study on the quantum general linear group and its representation theory Some of the central topics included are a development of quantum determinants Frobenius kernels and their representation theory high weight theory and the generalization of various important theorems concerning the cohomology of vector bundles on the flag manifold Finally the authors use the theory to give a treatment of  $q$  Schur algebras proving for example that  $q$  Schur algebras are quasi hereditary

**Global IC Bases for Quantum Linear Groups** Jie Du, 1994

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*The Theory of Groups and Quantum Mechanics* Hermann Weyl, 1950-01-01 This landmark among mathematics texts applies group theory to quantum mechanics first covering unitary geometry quantum theory groups and their representations then applications themselves rotation Lorentz permutation groups symmetric permutation groups and the algebra of symmetric transformations

*Noncommutative Geometry and Quantum Groups* Piotr M. Hajac, Wiesław Pusz, 2003

**Quantum Groups** Vladimir K. Dobrev, 2017-07-10 With applications in quantum field theory general relativity and elementary particle physics this three volume work studies the invariance of differential operators under Lie algebras quantum groups and superalgebras This second volume covers quantum groups in their two main

manifestations quantum algebras and matrix quantum groups The exposition covers both the general aspects of these and a great variety of concrete explicitly presented examples The invariant  $q$  difference operators are introduced mainly using representations of quantum algebras on their dual matrix quantum groups as carrier spaces This is the first book that covers the title matter applied to quantum groups Contents Quantum Groups and Quantum Algebras Highest Weight Modules over Quantum Algebras Positive Energy Representations of Noncompact Quantum Algebras Duality for Quantum Groups Invariant  $q$  Difference Operators Invariant  $q$  Difference Operators Related to  $GL_n(q)$  Maxwell Equations Hierarchies

**Representation Theory of Finite Groups and Finite-Dimensional Algebras** Michler, Ringel, 2012-12-06 From April 1 1984 until March 31 1991 the Deutsche Forschungsgemeinschaft has sponsored the project Representation Theory of Finite Groups and Finite Dimensional Algebras The proposal for this project was submitted by B Huppert Mainz B Fischer Bielefeld G Michler Essen H Pahlings Aachen and C M Ringel Bielefeld in order to strengthen the interaction between the different research areas in representation theory The Deutsche Forschungsgemeinschaft has given many research positions and fellowships for young algebraists enabling them to do research at their own universities or as visitors at well known research institutions in America Australia England and France The whole project benefitted very much from an extensive exchange programme between German and American scientists sponsored by the Deutsche Forschungsgemeinschaft and by the National Science Foundation of the United States This volume presents lectures given in a final conference and reports by members of the project It is divided into two parts The first part contains seven survey articles describing recent advances in different areas of representation theory These articles do not only concentrate on the work done by the German research groups but also inform on major developments of the subject at all The volume omits those topics already treated in book form In particular it does not contain a survey on K

**Group Theory in China** Zhexian Wan, Sheng-Ming Shi, 1996 Hsio Fu Tuan is a Chinese mathematician who has made important contributions to the theories of both finite groups and Lie groups He has also had a great influence on the development of algebra and particularly group theory in China The present volume consists of a collection of essays on various aspects of group theory written by some of his former students and colleagues in honour of his 80th birthday The papers contain the main general results as well as recent ones on certain topics within this discipline The chief editor Zhe Xian Wan is a leading algebraist in China

**Lie Group Machine Learning** Fanzhang Li, Li Zhang, Zhao Zhang, 2018-11-05 This book explains deep learning concepts and derives semi supervised learning and nuclear learning frameworks based on cognition mechanism and Lie group theory Lie group machine learning is a theoretical basis for brain intelligence Neuromorphic learning NL advanced machine learning and advanced artificial intelligence The book further discusses algorithms and applications in tensor learning spectrum estimation learning Finsler geometry learning Homology boundary learning and prototype theory With abundant case studies this book can be used as a reference book for senior college students and graduate students as well as college teachers and scientific and technical personnel involved in

computer science artificial intelligence machine learning automation mathematics management science cognitive science financial management and data analysis In addition this text can be used as the basis for teaching the principles of machine learning Li Fanzhang is professor at the Soochow University China He is director of network security engineering laboratory in Jiangsu Province and is also the director of the Soochow Institute of industrial large data He published more than 200 papers 7 academic monographs and 4 textbooks Zhang Li is professor at the School of Computer Science and Technology of the Soochow University She published more than 100 papers in journals and conferences and holds 23 patents Zhang Zhao is currently an associate professor at the School of Computer Science and Technology of the Soochow University He has authored and co authored more than 60 technical papers

Recent Developments in Algebraic and Combinatorial Aspects of Representation Theory Vyjayanthi Chari, Jacob Greenstein, Kailash C. Misra, K. N. Raghavan, Sankaran

Viswanath, 2013-11-25 This volume contains the proceedings of the International Congress of Mathematicians Satellite Conference on Algebraic and Combinatorial Approaches to Representation Theory held August 12-16 2010 at the National Institute of Advanced Studies Bangalore India and the follow up conference held May 18-20 2012 at the University of California USA It contains original research and survey articles on various topics in the theory of representations of Lie algebras quantum groups and algebraic groups including crystal bases categorification toroidal algebras and their generalisations vertex algebras Hecke algebras Kazhdan-Lusztig bases  $q$ -Schur algebras and Weyl algebras

**Algebraic Groups and Their Generalizations: Classical Methods** William Joseph Haboush, 1994

Representations of General Linear Groups and Quantum Groups Ka Chun Tse, 2001

Representation Theory of Finite Reductive Groups Marc Cabanes, Michel Enguehard, 2004-01-29 At the crossroads of representation theory algebraic geometry and finite group theory this 2004 book blends together many of the main concerns of modern algebra with full proofs of some of the most remarkable achievements in the area Cabanes and Enguehard follow three main themes first applications of étale cohomology leading to the proof of the recent Bonnaf-Rouquier theorems The second is a straightforward and simplified account of the Dipper-James theorems relating irreducible characters and modular representations The final theme is local representation theory One of the main results here is the authors version of Fong-Srinivasan theorems Throughout the text is illustrated by many examples and background is provided by several introductory chapters on basic results and appendices on algebraic geometry and derived categories The result is an essential introduction for graduate students and reference for all algebraists

**Categorification and Higher Representation Theory** Anna Beliakova, Aaron D. Lauda, 2017-02-21 The emergent mathematical philosophy of categorification is reshaping our view of modern mathematics by uncovering a hidden layer of structure in mathematics revealing richer and more robust structures capable of describing more complex phenomena Categorified representation theory or higher representation theory aims to understand a new level of structure present in representation theory Rather than studying actions of algebras on vector spaces where algebra elements act by

linear endomorphisms of the vector space higher representation theory describes the structure present when algebras act on categories with algebra elements acting by functors The new level of structure in higher representation theory arises by studying the natural transformations between functors This enhanced perspective brings into play a powerful new set of tools that deepens our understanding of traditional representation theory This volume exhibits some of the current trends in higher representation theory and the diverse techniques that are being employed in this field with the aim of showcasing the many applications of higher representation theory The companion volume Contemporary Mathematics Volume 684 is devoted to categorification in geometry topology and physics

**Algebras, Rings and Modules** Michiel Hazewinkel, Nadezhda Mikhaïlovna Gubareni, Vladimir V. Kirichenko, 2010 Presenting an introduction to the theory of Hopf algebras the authors also discuss some important aspects of the theory of Lie algebras This book includes a chapters on the Hopf algebra of symmetric functions the Hopf algebra of representations of the symmetric groups the Hopf algebras of the nonsymmetric and quasisymmetric functions and the Hopf algebra of permutations

Yang-baxter Equations In Paris - Proceedings Of The Conference Jean-marie Maillard, 1993-10-04

Iwahori-Hecke Algebras and Schur Algebras of the Symmetric Group Andrew Mathas, 1999 This volume presents a fully self contained introduction to the modular representation theory of the Iwahori Hecke algebras of the symmetric groups and of the  $q$  Schur algebras The study of these algebras was pioneered by Dipper and James in a series of landmark papers The primary goal of the book is to classify the blocks and the simple modules of both algebras The final chapter contains a survey of recent advances and open problems The main results are proved by showing that the Iwahori Hecke algebras and  $q$  Schur algebras are cellular algebras in the sense of Graham and Lehrer This is proved by exhibiting natural bases of both algebras which are indexed by pairs of standard and semistandard tableaux respectively Using the machinery of cellular algebras which is developed in chapter 2 this results in a clean and elegant classification of the irreducible representations of both algebras The block theory is approached by first proving an analogue of the Jantzen sum formula for the  $q$  Schur algebras This book is the first of its kind covering the topic It offers a substantially simplified treatment of the original proofs The book is a solid reference source for experts It will also serve as a good introduction to students and beginning researchers since each chapter contains exercises and there is an appendix containing a quick development of the representation theory of algebras A second appendix gives tables of decomposition numbers

Symmetries and Singularity Structures Muthuswamy Lakshmanan, Muthiah Daniel, 2012-12-06 Proceedings of the Workshop Bharathidasan University Tiruchirapalli India November 29 December 2 1989

## Unveiling the Magic of Words: A Report on "**Quantum Linear Groups**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Quantum Linear Groups**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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