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Series

Volume 26

Representations  
of Quantum Algebras  
and Combinatorics  
of Young Tableaux

Susumu Ariki



American Mathematical Society

# Representations Of Quantum Algebras And Combinatorics Of Young Tableaus

**Andrzej Skowroński**



## **Representations Of Quantum Algebras And Combinatorics Of Young Tableaux:**

Representations of Quantum Algebras and Combinatorics of Young Tableaux Susumu Ariki, 2002 This book contains most of the nonstandard material necessary to get acquainted with this new rapidly developing area. It can be used as a good entry point into the study of representations of quantum groups. Among several tools used in studying representations of quantum groups or quantum algebras are the notions of Kashiwara's crystal bases and Lusztig's canonical bases. Mixing both approaches allows us to use a combinatorial approach to representations of quantum groups and to apply the theory to representations of Hecke algebras. The primary goal of this book is to introduce the representation theory of quantum groups using quantum groups of type  $A_{r-1}$  as a main example. The corresponding combinatorics developed by Misra and Miwa turns out to be the combinatorics of Young tableaux. The second goal of this book is to explain the proof of the generalized Leclerc-Lascoux-Thibon conjecture. This conjecture, which is now a theorem, is an important breakthrough in the modular representation theory of the Hecke algebras of classical type. The book is suitable for graduate students and research mathematicians interested in representation theory of algebraic groups and quantum groups, the theory of Hecke algebras, algebraic combinatorics, and related fields. *Representations of quantum algebras and combinatorics of Young tableaux* Susumu Ariki, 2002

**Representations of Finite Dimensional Algebras and Related Topics in Lie Theory and Geometry** Vlastimil Dlab, Claus Michael Ringel, These proceedings are from the Tenth International Conference on Representations of Algebras and Related Topics ICRA X held at The Fields Institute. In addition to the traditional instructional workshop preceding the conference, there were also workshops on Commutative Algebra, Algebraic Geometry, and Representation Theory, Finite Dimensional Algebras, Algebraic Groups, and Lie Theory, and Quantum Groups and Hall Algebras. These workshops reflect the latest developments and the increasing interest in areas that are closely related to the representation theory of finite dimensional associative algebras. Although these workshops were organized separately, their topics are strongly interrelated. The workshop on Commutative Algebra, Algebraic Geometry, and Representation Theory surveyed various recently established connections such as those pertaining to the classification of vector bundles or Cohen-Macaulay modules over Noetherian rings, coherent sheaves on curves, or ideals in Weyl algebras. In addition, methods from algebraic geometry or commutative algebra relating to quiver representations and varieties of modules were presented. The workshop on Finite Dimensional Algebras, Algebraic Groups, and Lie Theory surveyed developments in finite dimensional algebras and infinite dimensional Lie theory, especially as the two areas interact and may have future interactions. The workshop on Quantum Groups and Hall Algebras dealt with the different approaches of using the representation theory of quivers and species in order to construct quantum groups, working either over finite fields or over the complex numbers. In particular, these proceedings contain a quite detailed outline of the use of perverse sheaves in order to obtain canonical bases. The book is recommended for graduate students and researchers in algebra and geometry. Representations of Algebraic

Groups, Quantum Groups, and Lie Algebras Georgia Benkart, 2006 Covers various aspects of the representation theory of Lie algebras finite groups of Lie types Hecke algebras and Lie super algebras This book outlines connections among irreducible representations of certain blocks of reduced enveloping algebras of semi simple Lie algebras in positive characteristic

**Combinatorial and Geometric Representation Theory** Seok-Jin Kang, Kyu-Hwan Lee, 2003 This volume presents the proceedings of the international conference on Combinatorial and Geometric Representation Theory In the field of representation theory a wide variety of mathematical ideas are providing new insights giving powerful methods for understanding the theory and presenting various applications to other branches of mathematics Over the past two decades there have been remarkable developments This book explains the strong connections between combinatorics geometry and representation theory It is suitable for graduate students and researchers interested in representation theory **Young**

**Tableaux in Combinatorics, Invariant Theory, and Algebra** Joseph P.S. Kung, 2014-05-12 Young Tableaux in Combinatorics Invariant Theory and Algebra An Anthology of Recent Work is an anthology of papers on Young tableaux and their applications in combinatorics invariant theory and algebra Topics covered include reverse plane partitions and tableau hook numbers some partitions associated with a partially ordered set frames and Baxter sequences and Young diagrams and ideals of Pfaffians Comprised of 16 chapters this book begins by describing a probabilistic proof of a formula for the number of standard Young tableaux of a given shape  $f$  The reader is then introduced to the generating function of R P Stanley for reverse plane partitions on a tableau shape an analog of Schensted's algorithm relating permutations and triples consisting of two shifted Young tableaux and a set and a variational problem for random Young tableaux Subsequent chapters deal with certain aspects of Schensted's construction and the derivation of the Littlewood Richardson rule for the multiplication of Schur functions using purely combinatorial methods monotonicity and unimodality of the pattern inventory and skew symmetric invariant theory This volume will be helpful to students and practitioners of algebra *Representation Theory of*

*Algebraic Groups and Quantum Groups* Akihiko Gyoja, Hiraku Nakajima, Ken-ichi Shinoda, Toshiaki Shoji, Toshiyuki Tanisaki, 2010-11-25 Invited articles by top notch experts Focus is on topics in representation theory of algebraic groups and quantum groups Of interest to graduate students and researchers in representation theory group theory algebraic geometry quantum theory and math physics Handbook of Algebra M. Hazewinkel, 2009-07-08 Algebra as we know it today consists

of many different ideas concepts and results A reasonable estimate of the number of these different items would be somewhere between 50 000 and 200 000 Many of these have been named and many more could and perhaps should have a name or a convenient designation Even the nonspecialist is likely to encounter most of these either somewhere in the literature disguised as a definition or a theorem or to hear about them and feel the need for more information If this happens one should be able to find enough information in this Handbook to judge if it is worthwhile to pursue the quest In addition to the primary information given in the Handbook there are references to relevant articles books or lecture notes to help the

reader An excellent index has been included which is extensive and not limited to definitions theorems etc The Handbook of Algebra will publish articles as they are received and thus the reader will find in this third volume articles from twelve different sections The advantages of this scheme are two fold accepted articles will be published quickly and the outline of the Handbook can be allowed to evolve as the various volumes are published A particularly important function of the Handbook is to provide professional mathematicians working in an area other than their own with sufficient information on the topic in question if and when it is needed Thorough and practical source of information Provides in depth coverage of new topics in algebra Includes references to relevant articles books and lecture notes

**Planar Algebras in Braided Tensor Categories** André Gil Henriques, David Penneys, James E. Tener, 2023-02-13 View the abstract

**Basics of Representation Theory** Udayan Bhattacharya, 2025-02-20 Delve into the captivating world of Basics of Representation Theory a comprehensive guide designed for students researchers and enthusiasts eager to explore the intricate symmetries and structures that underpin modern mathematics Our book offers a detailed introduction to foundational concepts providing a solid understanding of group actions linear representations and character theory From there it explores the algebraic structures of irreducible representations breaking down the decomposition into irreducible components and examining the properties of characters Readers will journey through diverse topics including the representation theory of symmetric groups Lie groups and algebraic groups as well as advanced topics such as the representation theory of finite groups the Langlands program and applications in quantum mechanics and number theory With a wealth of examples illustrations and exercises Basics of Representation Theory ensures a hands on approach to learning encouraging practical exploration and problem solving The book also includes numerous references and further reading suggestions for those who wish to delve deeper into specific topics Written in a clear and accessible style this book caters to all levels from undergraduate students encountering representation theory for the first time to experienced researchers seeking fresh insights With its comprehensive coverage and diverse applications Basics of Representation Theory is an invaluable resource for anyone interested in the beauty and depth of this field

**Representations of Hecke Algebras at Roots of Unity** Meinolf Geck, Nicolas Jacon, 2011-05-18 The modular representation theory of Iwahori Hecke algebras and this theory's connection to groups of Lie type is an area of rapidly expanding interest it is one that has also seen a number of breakthroughs in recent years In classifying the irreducible representations of Iwahori Hecke algebras at roots of unity this book is a particularly valuable addition to current research in this field Using the framework provided by the Kazhdan Lusztig theory of cells the authors develop an analogue of James 1970 characteristic free approach to the representation theory of Iwahori Hecke algebras in general Presenting a systematic and unified treatment of representations of Hecke algebras at roots of unity this book is unique in its approach and includes new results that have not yet been published in book form It also serves as background reading to further active areas of current research such as the theory of affine Hecke algebras and Cherednik algebras The main results of this book

are obtained by an interaction of several branches of mathematics namely the theory of Fock spaces for quantum affine Lie algebras and Ariki's theorem the combinatorics of crystal bases the theory of Kazhdan Lusztig bases and cells and computational methods This book will be of use to researchers and graduate students in representation theory as well as any researchers outside of the field with an interest in Hecke algebras Mathematical Reviews, 2008 American Mathematical Society Translations United States. Office of Naval Research, 2001-04-10 The articles in this collection present new results in combinatorics algebra algebraic geometry dynamical systems analysis and probability Of particular interest is the survey article by A N Kirillov devoted to combinatorics of Young diagrams and related problems of representation theory Also included are articles devoted to the eightieth birthday of renowned Russian mathematician V A Rokhlin Remembrances of V A Rokhlin by I R Shafarevich and An Unfinished Project of V A Rokhlin by V N Sudakov The results ideas and methods given in the book will be of interest to a broad range of specialists

**Trends in Representation Theory of Algebras and Related Topics** Andrzej Skowroński, 2008 This book is concerned with recent trends in the representation theory of algebras and its exciting interaction with geometry topology commutative algebra Lie algebras quantum groups homological algebra invariant theory combinatorics model theory and theoretical physics The collection of articles written by leading researchers in the field is conceived as a sort of handbook providing easy access to the present state of knowledge and stimulating further development The topics under discussion include diagram algebras Brauer algebras cellular algebras quasi hereditary algebras Hall algebras Hecke algebras symplectic reflection algebras Cherednik algebras Kashiwara crystals Fock spaces preprojective algebras cluster algebras rank varieties varieties of algebras and modules moduli of representations of quivers semi invariants of quivers Cohen Macaulay modules singularities coherent sheaves derived categories spectral representation theory Coxeter polynomials Auslander Reiten theory Calabi Yau triangulated categories Poincare duality spaces selfinjective algebras periodic algebras stable module categories Hochschild cohomologies deformations of algebras Galois coverings of algebras tilting theory algebras of small homological dimensions representation types of algebras and model theory This book consists of fifteen self contained expository survey articles and is addressed to researchers and graduate students in algebra as well as a broader mathematical community They contain a large number of open problems and give new perspectives for research in the field

**Algebraic Structures and Their Representations** José Antonio de la Peña, Ernesto Vallejo, Natig M. Atakishiyev, 2005 The Latin American conference on algebra the XV Coloquio Latinoamericano de Algebra Cocoyoc Mexico consisted of plenary sessions of general interest and special sessions on algebraic combinatorics associative rings cohomology of rings and algebras commutative algebra group representations Hopf algebras number theory quantum groups and representation theory of algebras This proceedings volume contains original research papers related to talks at the colloquium In addition there are several surveys presenting important topics to a broad mathematical audience There are also two invited papers by Raymundo Bautista and Roberto Martinez founders of the

Mexican school of representation theory of algebras The book is suitable for graduate students and researchers interested in algebra     Infinite-Dimensional Aspects of Representation Theory and Applications Stephen Berman, 2005 The University of Virginia Charlottesville hosted an international conference on Infinite dimensional Aspects of Representation Theory and Applications This volume contains papers resulting from the mini courses and talks given at the meeting Beyond the techniques and ideas related to representation theory the book demonstrates connections to number theory algebraic geometry and mathematical physics The specific topics covered include Hecke algebras quantum groups infinite dimensional Lie algebras quivers modular representations and Gromov Witten invariants The book is suitable for graduate students and researchers interested in representation theory     *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     **Yangians and Classical Lie Algebras** Alexander Molev, 2007 The Yangians and twisted Yangians are remarkable associative algebras taking their origins from the work of St Petersburg s school of mathematical physics in the 1980s This book is an introduction to the theory of Yangians and twisted Yangians with a particular emphasis on the relationship with the classical matrix Lie algebras     **New Perspectives in Algebraic Combinatorics** Louis J. Billera, 1999-09-28 This text contains expository contributions by respected researchers on the connections between algebraic geometry topology commutative algebra representation theory and convex geometry     Representation Theory of Algebraic Groups and Quantum Groups Toshiaki Shoji, 2004 A collection of research and survey papers written by speakers at the Mathematical Society of Japan s 10th International Conference This title presents an overview of developments in representation theory of algebraic groups and quantum groups It includes papers containing results concerning Lusztig s conjecture on cells in affine Weyl groups

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