

Lecture Notes in Mathematics

Louis Boutet de Monvel  
Corrado de Concini    Claudio Procesi  
Pierre Schapira        Michèle Vergne

# D-modules, Representation Theory, and Quantum Groups

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# D Modules Representation Theory And Quantum Groups

**Louis Boutet de Monvel, Corrado de  
Concini, Claudio Procesi, Pierre  
Schapira, Michele Vergne**

## **D Modules Representation Theory And Quantum Groups:**

D-modules, Representation Theory, and Quantum Groups Louis Boutet de Monvel, Corrado de Concini, Claudio Procesi, Pierre Schapira, Michele Vergne, 2006-11-15 CONTENTS L Boutet de Monvel Indice de systemes differentiels C De Concini C Procesi Quantum groups P Schapira J P Schneiders Index theorems for R constructible sheaves and for D modules N Berline M Vergne The equivariant Chern character and index of G invariant operators **D-modules, Representation Theory, and Quantum Groups** Louis Boutet de Monvel, Corrado de Concini, Claudio Procesi, Pierre Schapira, Michele Vergne, 2014-03-12 **D-modules, Representation Theory, and Quantum Groups**, 1993 **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 Complex Semisimple Quantum Groups and Representation Theory Christian Voigt, Robert Yuncken, 2020-09-24 This book provides a thorough introduction to the theory of complex semisimple quantum groups that is Drinfeld doubles of  $q$  deformations of compact semisimple Lie groups The presentation is comprehensive beginning with background information on Hopf algebras and ending with the classification of admissible representations of the  $q$  deformation of a complex semisimple Lie group The main components are a thorough introduction to quantized universal enveloping algebras over general base fields and generic deformation parameters including finite dimensional representation theory the Poincaré Birkhoff Witt Theorem the locally finite part and the Harish Chandra homomorphism the analytic theory of quantized complex semisimple Lie groups in terms of quantized algebras of functions and their duals algebraic representation theory in terms of category  $\mathcal{O}$  and analytic representation theory of quantized complex semisimple groups Given its scope the book will be a valuable resource for both graduate students and researchers in the area of quantum groups *Representation Theories and Algebraic Geometry* A. Broer, 2013-03-09 The 12 lectures presented in *Representation Theories and Algebraic Geometry* focus on the very rich and powerful interplay between algebraic geometry and the representation theories of various modern mathematical structures such as reductive groups quantum groups Hecke algebras restricted Lie algebras and their companions This interplay has been extensively exploited during recent years resulting in great progress in these representation theories Conversely a great stimulus has been given to the development of such geometric theories as D modules perverse sheaves and equivariant intersection cohomology The range of topics covered is wide from equivariant Chow groups decomposition classes and Schubert varieties multiplicity free actions convolution algebras standard monomial theory and canonical bases to annihilators of quantum Verma modules modular representation theory of Lie algebras and combinatorics of representation categories of Harish Chandra modules *D-Modules, Perverse Sheaves, and Representation Theory* Ryoshi Hotta, Toshiyuki Tanisaki, 2007-11-07 D modules continues to be an active area of

stimulating research in such mathematical areas as algebraic analysis differential equations and representation theory Key to D modules Perverse Sheaves and Representation Theory is the authors essential algebraic analytic approach to the theory which connects D modules to representation theory and other areas of mathematics To further aid the reader and to make the work as self contained as possible appendices are provided as background for the theory of derived categories and algebraic varieties The book is intended to serve graduate students in a classroom setting and as self study for researchers in algebraic geometry representation theory

*Lie Groups, Geometry, and Representation Theory* Victor G. Kac, Vladimir L. Popov, 2018-12-12 This volume dedicated to the memory of the great American mathematician Bertram Kostant May 24 1928 February 2 2017 is a collection of 19 invited papers by leading mathematicians working in Lie theory representation theory algebra geometry and mathematical physics Kostant s fundamental work in all of these areas has provided deep new insights and connections and has created new fields of research This volume features the only published articles of important recent results of the contributors with full details of their proofs Key topics include Poisson structures and potentials A Alekseev A Berenstein B Hoffman Vertex algebras T Arakawa K Kawasetsu Modular irreducible representations of semisimple Lie algebras R Bezrukavnikov I Losev Asymptotic Hecke algebras A Braverman D Kazhdan Tensor categories and quantum groups A Davydov P Etingof D Nikshych Nil Hecke algebras and Whittaker D modules V Ginzburg Toeplitz operators V Guillemin A Uribe Z Wang Kashiwara crystals A Joseph Characters of highest weight modules V Kac M Wakimoto Alcove polytopes T Lam A Postnikov Representation theory of quantized Gieseker varieties I Losev Generalized Bruhat cells and integrable systems J H Liu Y Mi Almost characters G Lusztig Verlinde formulas E Meinrenken Dirac operator and equivariant index P Paradan M Vergne Modality of representations and geometry of groups V L Popov Distributions on homogeneous spaces N Ressayre Reduction of orthogonal representations J P Serre

**Mathematical Reviews** ,2002 Algebraic Geometry Dan Abramovich, 2009 The 2005 AMS Summer Institute on Algebraic Geometry in Seattle was an enormous event With over 500 participants including many of the world s leading experts it was perhaps the largest conference on algebraic geometry ever held These two proceedings volumes present research and expository papers by some of the most outstanding speakers at the meeting vividly conveying the grandeur and vigor of the subject The most exciting topics in current algebraic geometry research receive very ample treatment For instance there is enlightening information on many of the latest technical tools from jet schemes and derived categories to algebraic stacks Numerous papers delve into the geometry of various moduli spaces including those of stable curves stable maps coherent sheaves and abelian varieties Other papers discuss the recent dramatic advances in higher dimensional birational geometry while still others trace the influence of quantum field theory on algebraic geometry via mirror symmetry Gromov Witten invariants and symplectic geometry The proceedings of earlier algebraic geometry AMS Institutes held at Woods Hole Arcata Bowdoin and Santa Cruz have become classics The present volumes promise to be equally influential They present the state of the art in algebraic geometry in

papers that will have broad interest and enduring value Trends in Ring Theory Vlastimil Dlab, László Márki, 1998 The Ring Theory Conference held at the University of Miskolc Hungary successfully accomplished its two goals to reflect contemporary trends in the subject area and to offer a meeting place for a large number of Eastern European algebraists and their colleagues from around the world Particular emphasis was placed on recent developments in the following four areas representation theory group algebras PI algebras and general ring theory This book presents 13 of the invited lectures

Annales Scientifiques de L'École Normale Supérieure École normale supérieure (France), 2005 **Delta-Modules, Representation Theory, and Quantum Groups**, 1993 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 St. Petersburg Mathematical Journal, 2004 Transactions of the American Mathematical Society, 1996

Algebraic Combinatorics And Quantum Groups Naihuan Jing, 2003-06-27 Algebraic combinatorics has evolved into one of the most active areas of mathematics during the last several decades Its recent developments have become more interactive with not only its traditional field representation theory but also algebraic geometry harmonic analysis and mathematical physics This book presents articles from some of the key contributors in the area It covers Hecke algebras Hall algebras the Macdonald polynomial and its deviations and their relations with other fields **Representation Theory and Complex**

**Geometry** Victor Ginzburg, 2005-05-01 see attached This second edition of it Representation Theory and Complex Geometry provides an overview of significant advances in representation theory from a geometric standpoint A geometrically oriented treatment has long been desired especially since the discovery of cal D modules in the early 80s and the quiver approach to quantum groups in the early 90s The first half of the book fills the gap between the standard knowledge of a beginner in Lie theory and the much wider background needed by the working mathematician Thus Chapters 1 3 and 5 6 provide some basics in symplectic geometry Borel Moore homology the geometry of semisimple groups equivariant algebraic K theory from scratch and the topology and algebraic geometry of flag varieties and conjugacy classes respectively The material covered by Chapters 5 and 6 as well as most of Chapter 3 has never been presented in book form Chapters 3 4 and 7 8 present a uniform approach to representation theory of three quite different objects Weyl groups Lie algebra  $\mathfrak{sl}_n$  and the Iwahori Hecke algebra The results of Chapters 4 and 8 with complete proofs are not to be found elsewhere in the literature This second edition contains substantial updates and revisions to include more standard classical results in chapters 2 3 5 and 6 as well as two new chapters Chapter 9 treats the applications of cal D modules to Lie groups and includes the study of Differential operators on a semisimple group and on its flag manifold the famous Beilinson Bernstein Localization Theorem reducing the study of  $\mathfrak{g}$  modules to that of cal D modules the so called Harish Chandra holonomic system Chapter 10 is devoted to some

very exciting developments connecting the representations of quantum groups to the geometry of quiver varieties introduced by Lusztig and Nakajima The subject is closely related to many other important topics such as the McKay correspondence semismall resolutions and Hilbert schemes Overall this chapter puts the representation theory of Kac Moody algebras and quantum groups in this broader context The exposition is practically self contained with each chapter potentially serving as a basis for a graduate course or seminar An excellent glossary of notation comprehensive bibliography and extensive index round out this new edition The techniques developed here play an essential role in the development of the Langlands program and can be successfully applied to representation theory quantum groups and quantum field theory affine Lie algebras algebraic geometry and mathematical physics

**Invariants of Knots and 3-manifolds (Kyoto 2001)** Tomotada Ohtsuki,2002

**Algebraic Geometry** ,2004

## Unveiling the Magic of Words: A Overview of "**D Modules Representation Theory And Quantum Groups**"

In a world 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 actually awe-inspiring. Enter the realm of "**D Modules Representation Theory And Quantum 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 into the book's central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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