

Progress in Mathematics



Shrawan Kumar

**Kac–Moody Groups,
their Flag Varieties
and Representation Theory**



Birkhäuser

Kac Moody Groups Their Flag Varieties And Representation Theory

K. P. Shum



Kac Moody Groups Their Flag Varieties And Representation Theory:

Kac-Moody Groups, their Flag Varieties and Representation Theory Shrawan Kumar, 2002-09-10 Most of these topics appear here for the first time in book form Many of them are interesting even in the classical case of semi simple algebraic groups Some appendices recall useful results from other areas so the work may be considered self contained although some familiarity with semi simple Lie algebras or algebraic groups is helpful It is clear that this book is a valuable reference for all those interested in flag varieties and representation theory in the semi simple or Kac Moody case

MATHEMATICAL REVIEWS A lot of different topics are treated in this monumental work many of the topics of the book will be useful for those only interested in the finite dimensional case The book is self contained but is on the level of advanced graduate students For the motivated reader who is willing to spend considerable time on the material the book can be a gold mine

ZENTRALBLATT MATH *Kac-Moody Groups, their Flag Varieties and Representation Theory* Shrawan Kumar, 2012-10-23 Kac Moody Lie algebras \mathfrak{g} were introduced in the mid 1960s independently by V Kac and R Moody generalizing the finite dimensional semisimple Lie algebras which we refer to as the finite case The theory has undergone tremendous developments in various directions and connections with diverse areas abound including mathematical physics so much so that this theory has become a standard tool in mathematics A detailed treatment of the Lie algebra aspect of the theory can be found in V Kac's book *Kac 90* This self contained work treats the algebro geometric and the topological aspects of Kac Moody theory from scratch The emphasis is on the study of the Kac Moody groups \mathfrak{g} and their flag varieties X/Y including their detailed construction and their applications to the representation theory of \mathfrak{g} In the finite case \mathfrak{g} is nothing but a semisimple Y simply connected algebraic group and X is the flag variety \mathfrak{g}/P_Y for a parabolic subgroup $p \subset C \subset \mathfrak{g}$

Kac-Moody Groups, their Flag Varieties and Representation Theory Shrawan Kumar, 2012-12-06 Kac Moody Lie algebras \mathfrak{g} were introduced in the mid 1960s independently by V Kac and R Moody generalizing the finite dimensional semisimple Lie algebras which we refer to as the finite case The theory has undergone tremendous developments in various directions and connections with diverse areas abound including mathematical physics so much so that this theory has become a standard tool in mathematics A detailed treatment of the Lie algebra aspect of the theory can be found in V Kac's book *Kac 90* This self contained work treats the algebro geometric and the topological aspects of Kac Moody theory from scratch The emphasis is on the study of the Kac Moody groups \mathfrak{g} and their flag varieties X/Y including their detailed construction and their applications to the representation theory of \mathfrak{g} In the finite case \mathfrak{g} is nothing but a semisimple Y simply connected algebraic group and X is the flag variety \mathfrak{g}/P_Y for a parabolic subgroup $p \subset Y \subset C \subset \mathfrak{g}$

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

Schubert Calculus and Its Applications in Combinatorics and Representation Theory Jianxun Hu, Changzheng Li, Leonardo C. Mihalcea, 2020-10-24 This book gathers research papers and surveys on the latest advances in Schubert Calculus presented at the International Festival in Schubert Calculus held in Guangzhou China on November 6 10 2017 With roots in enumerative geometry and Hilbert's 15th problem modern Schubert Calculus studies classical and quantum intersection rings on spaces with symmetries such as flag manifolds The presence of symmetries leads to particularly rich structures and it connects Schubert Calculus to many branches of mathematics including algebraic geometry combinatorics representation theory and theoretical physics For instance the study of the quantum cohomology ring of a Grassmann manifold combines all these areas in an organic way The book is useful for researchers and graduate students interested in Schubert Calculus and more generally in the study of flag manifolds in relation to algebraic geometry combinatorics representation theory and mathematical physics

[Representation Theory and Geometry of the Flag Variety](#) William M. McGovern, 2022-11-07 This comprehensive reference begins with a review of the basics followed by a presentation of flag varieties and finite and infinite dimensional representations in classical types and subvarieties of flag varieties and their singularities Associated varieties and characteristic cycles are covered as well and Kazhdan Lusztig polynomials are treated The coverage concludes with a discussion of pattern avoidance and singularities and some recent results on Springer fibers

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

Approximation Theory and Numerical Analysis Meet Algebra, Geometry, Topology Martina Lanini, Carla Manni, Henry Schenck, 2024-12-22 The book based on the INdAM Workshop Approximation Theory and Numerical Analysis Meet Algebra Geometry Topology provides a bridge between different communities of

mathematicians who utilize splines in their work Splines are mathematical objects which allow researchers in geometric modeling and approximation theory to tackle a wide variety of questions Splines are interesting for both applied mathematicians and also for those working in purely theoretical mathematical settings This book contains contributions by researchers from different mathematical communities on the applied side those working in numerical analysis and approximation theory and on the theoretical side those working in GKM theory equivariant cohomology and homological algebra

Relative Aspects in Representation Theory, Langlands Functoriality and Automorphic Forms Volker Heiermann, Dipendra Prasad, 2018-10-01 This volume presents a panorama of the diverse activities organized by V Heiermann and D Prasad in Marseille at the CIRM for the Chaire Morlet event during the first semester of 2016 It assembles together expository articles on topics which previously could only be found in research papers Starting with a very detailed article by P Baumann and S Riche on the geometric Satake correspondence the book continues with three introductory articles on distinguished representations due to P Broussous F Murnaghan and O Offen an expository article of I Badulescu on the Jacquet Langlands correspondence a paper of J Arthur on functoriality and the trace formula in the context of Beyond Endoscopy taken from the Simons Proceedings an article of W W Li attempting to generalize Godement Jacquet theory and a research paper of C Moeglin and D Renard applying the trace formula to the local Langlands classification for classical groups The book should be of interest to students as well as professional researchers working in the broad area of number theory and representation theory

Topics in Cohomological Studies of Algebraic Varieties Piotr Pragacz, 2006-03-30 The articles in this volume study various cohomological aspects of algebraic varieties characteristic classes of singular varieties geometry of flag varieties cohomological computations for homogeneous spaces K theory of algebraic varieties quantum cohomology and Gromov Witten theory The main purpose is to give comprehensive introductions to the above topics through a series of friendly texts starting from a very elementary level and ending with the discussion of current research In the articles the reader will find classical results and methods as well as new ones Numerous examples will help to understand the mysteries of the cohomological theories presented The book will be a useful guide to research in the above mentioned areas It is addressed to researchers and graduate students in algebraic geometry algebraic topology and singularity theory as well as to mathematicians interested in homogeneous varieties and symmetric functions Most of the material exposed in the volume has not appeared in books before Contributors Paolo Aluffi Michel Brion Anders Skovsted Buch Haibao Duan Ali Ulas Ozgur Kisisel Piotr Pragacz J rg Sch rmann Marek Szyjewski Harry Tamvakis *k-Schur Functions and Affine Schubert Calculus* Thomas Lam, Luc Lapointe, Jennifer Morse, Anne Schilling, Mark Shimozono, Mike Zabrocki, 2014-06-05 This book gives an introduction to the very active field of combinatorics of affine Schubert calculus explains the current state of the art and states the current open problems Affine Schubert calculus lies at the crossroads of combinatorics geometry and representation theory Its modern development is motivated by two seemingly unrelated

directions One is the introduction of k Schur functions in the study of Macdonald polynomial positivity a mostly combinatorial branch of symmetric function theory The other direction is the study of the Schubert bases of the co homology of the affine Grassmannian an algebro topological formulation of a problem in enumerative geometry This is the first introductory text on this subject It contains many examples in Sage a free open source general purpose mathematical software system to entice the reader to investigate the open problems This book is written for advanced undergraduate and graduate students as well as researchers who want to become familiar with this fascinating new field

New Trends in Algebras and

Combinatorics K. P. Shum, 2020 *Extended Graphical Calculus for Categorified Quantum $sl(2)$* Mikhail Khovanov, 2012 In an earlier paper Aaron D Lauda constructed a categorification of the Beilinson Lusztig MacPherson form of the quantum $sl(2)$ here he Khovanov Marco Mackaay and Marko Stosic enhance the graphical calculus he introduced to include two morphisms between divided powers one morphisms and their compositions They obtain explicit diagrammatical formulas for the decomposition of products of divided powers one morphisms as direct sums of indecomposable one morphisms which are in a bijection with the Lusztig canonical basis elements Their results show that one of Lauda's main results holds when the 2 category is defined over the ring of integers rather than over a field The study is not indexed Annotation 2012 Book News Inc Portland OR booknews.com [Introduction to Finite and Infinite Dimensional Lie \(Super\)algebras](#) Neelacanta

Sthanumoorthy, 2016-04-26 Lie superalgebras are a natural generalization of Lie algebras having applications in geometry number theory gauge field theory and string theory Introduction to Finite and Infinite Dimensional Lie Algebras and Superalgebras introduces the theory of Lie superalgebras their algebras and their representations The material covered ranges from basic definitions of Lie groups to the classification of finite dimensional representations of semi simple Lie algebras While discussing all classes of finite and infinite dimensional Lie algebras and Lie superalgebras in terms of their different classes of root systems the book focuses on Kac Moody algebras With numerous exercises and worked examples it is ideal for graduate courses on Lie groups and Lie algebras Discusses the fundamental structure and all root relationships of Lie algebras and Lie superalgebras and their finite and infinite dimensional representation theory Closely describes BKM Lie superalgebras their different classes of imaginary root systems their complete classifications root supermultiplicities and related combinatorial identities Includes numerous tables of the properties of individual Lie algebras and Lie superalgebras Focuses on Kac Moody algebras [Categorical, Combinatorial and Geometric Representation Theory and Related Topics](#) Pramod N. Achar, Kailash C. Misra, Daniel K. Nakano, 2024-07-11 This book is the third Proceedings of the Southeastern Lie Theory Workshop Series covering years 2015-21 During this time five workshops on different aspects of Lie theory were held at North Carolina State University in October 2015 University of Virginia in May 2016 University of Georgia in June 2018 Louisiana State University in May 2019 and College of Charleston in October 2021 Some of the articles by experts in the field describe recent developments while others include new results in categorical combinatorial and geometric representation

theory of algebraic groups Lie super algebras and quantum groups as well as on some related topics The survey articles will be beneficial to junior researchers This book will be useful to any researcher working in Lie theory and related areas

Affine Insertion and Pieri Rules for the Affine Grassmannian Thomas Lam, 2010 The authors study combinatorial aspects of the Schubert calculus of the affine Grassmannian Gr associated with SL_n/\mathbb{C} Their main results are Pieri rules for the Schubert bases of $H^*(\mathrm{Gr})$ and $H_*(\mathrm{Gr})$ which expresses the product of a special Schubert class and an arbitrary Schubert class in terms of Schubert classes A new combinatorial definition for k Schur functions which represent the Schubert basis of $H_*(\mathrm{Gr})$ A combinatorial interpretation of the pairing $H^*(\mathrm{Gr}) \times H_*(\mathrm{Gr}) \rightarrow \mathbb{Z}$ induced by the cap product

Conformal Blocks, Generalized Theta Functions and the Verlinde Formula Shrawan Kumar, 2021-11-25 In 1988 E Verlinde gave a remarkable conjectural formula for the dimension of conformal blocks over a smooth curve in terms of representations of affine Lie algebras Verlinde's formula arose from physical considerations but it attracted further attention from mathematicians when it was realized that the space of conformal blocks admits an interpretation as the space of generalized theta functions A proof followed through the work of many mathematicians in the 1990s This book gives an authoritative treatment of all aspects of this theory It presents a complete proof of the Verlinde formula and full details of the connection with generalized theta functions including the construction of the relevant moduli spaces and stacks of G bundles Featuring numerous exercises of varying difficulty guides to the wider literature and short appendices on essential concepts it will be of interest to senior graduate students and researchers in geometry

representation theory and theoretical physics

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

Interactions of Quantum Affine Algebras with Cluster Algebras, Current Algebras and Categorification Jacob Greenstein, David Hernandez, Kailash C. Misra, Prasad Senesi, 2022-03-11 This volume collects chapters that examine representation theory as

connected with affine Lie algebras and their quantum analogues in celebration of the impact Vyjayanthi Chari has had on this area. The opening chapters are based on mini courses given at the conference Interactions of Quantum Affine Algebras with Cluster Algebras, Current Algebras and Categorification held on the occasion of Chari's 60th birthday at the Catholic University of America in Washington D C June 2018. The chapters that follow present a broad view of the area featuring surveys, original research and an overview of Vyjayanthi Chari's significant contributions. Written by distinguished experts in representation theory, a range of topics are covered including String diagrams and categorification, Quantum affine algebras and cluster algebras, Steinberg groups for Jordan pairs, Dynamical quantum determinants and Pfaffians. Interactions of Quantum Affine Algebras with Cluster Algebras, Current Algebras and Categorification will be an ideal resource for researchers in the fields of representation theory and mathematical physics.

Introduction to Vertex Operator Algebras and Their Representations James Lepowsky, Haisheng Li, 2012-12-06. Introduces the fundamental theory of vertex operator algebras and its basic techniques and examples. Begins with a detailed presentation of the theoretical foundations and proceeds to a range of applications. Includes a number of new original results and brings fresh perspective to important works of many other researchers in algebra, Lie theory, representation theory, string theory, quantum field theory and other areas of math and physics.

This book delves into Kac Moody Groups Their Flag Varieties And Representation Theory. Kac Moody Groups Their Flag Varieties And Representation Theory is an essential topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Kac Moody Groups Their Flag Varieties And Representation Theory, encompassing both the fundamentals and more intricate discussions.

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 - Chapter 4: Kac Moody Groups Their Flag Varieties And Representation Theory in Specific Contexts
 - Chapter 5: Conclusion
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3. In chapter 2, this book will delve into the foundational concepts of Kac Moody Groups Their Flag Varieties And Representation Theory. This chapter will elucidate the essential principles that need to be understood to grasp Kac Moody Groups Their Flag Varieties And Representation Theory in its entirety.
4. In chapter 3, this book will examine the practical applications of Kac Moody Groups Their Flag Varieties And Representation Theory in daily life. The third chapter will showcase real-world examples of how Kac Moody Groups Their Flag Varieties And Representation Theory can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Kac Moody Groups Their Flag Varieties And Representation Theory in specific contexts. The fourth chapter will explore how Kac Moody Groups Their Flag Varieties And Representation Theory is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Kac Moody Groups Their Flag Varieties And Representation Theory. This chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Kac Moody Groups Their Flag Varieties And Representation Theory.

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