



Algebraic Groups and their Representations

Edited by

R. W. Carter and J. Saxl

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Representations Of Algebraic Groups

Jens Carsten Jantzen



Representations Of Algebraic Groups:

Representations of Algebraic Groups Jens Carsten Jantzen, 2003 Gives an introduction to the general theory of representations of algebraic group schemes This title deals with representation theory of reductive algebraic groups and includes topics such as the description of simple modules vanishing theorems Borel Bott Weil theorem and Weyl's character formula and Schubert schemes and line bundles on them *Representations of Algebraic Groups* Jens Carsten Jantzen, 1985

Representations of Algebraic Groups Jens Carsten Jantzen, 2014-05-21 Gives an introduction to the general theory of representations of algebraic group schemes This title deals with representation theory of reductive algebraic groups and includes topics such as the description of simple modules vanishing theorems Borel Bott Weil theorem and Weyl's character formula and Schubert schemes and line bundles on them *Algebraic Groups and their Representations* R.W. Carter, J. Saxl, 2012-12-06 This volume contains 19 articles written by speakers at the Advanced Study Institute on Modular representations and subgroup structure of algebraic groups and related finite groups held at the Isaac Newton Institute Cambridge from 23rd June to 4th July 1997 We acknowledge with gratitude the financial support given by the NATO Science Committee to enable this ASI to take place Generous financial support was also provided by the European Union We are also pleased to acknowledge funds given by EPSRC to the Newton Institute which were used to support the meeting It is a pleasure to thank the Director of the Isaac Newton Institute Professor Keith Moffatt and the staff of the Institute for their dedicated work which did so much to further the success of the meeting The editors wish to thank Dr Ross Lawther and Dr Nick Inglis most warmly for their help in the production of this volume Dr Lawther in particular made an invaluable contribution in preparing the volume for submission to the publishers Finally we wish to thank the distinguished speakers at the ASI who agreed to write articles for this volume based on their lectures at the meeting We hope that the volume will stimulate further significant advances in the theory of algebraic groups **Representations of Algebraic Groups,**

Quantum Groups and Lie Algebras Georgia Benkart, 2006 The book contains several well written accessible survey papers in many interrelated areas of current research These areas cover various aspects of the representation theory of Lie algebras finite groups of Lie types Hecke algebras and Lie superalgebras Geometric methods have been instrumental in representation theory and the proceedings include surveys on geometric as well as combinatorial constructions of the crystal basis for representations of quantum groups Humphreys paper outlines intricate connections among irreducible representations of certain blocks of reduced enveloping algebras of semi simple Lie algebras in positive characteristic left cells in two sided cells of affine Weyl groups and the geometry of the nilpotent orbits All these papers provide the reader with a broad picture of the interaction of many different research areas and should be helpful to those who want to have a glimpse of current research involving representation theory **Rational Representations of Algebraic Groups** Stephen

Donkin, 2014-01-15 **Essays in the History of Lie Groups and Algebraic Groups** Armand Borel, 2001 Algebraic groups

and Lie groups are important in most major areas of mathematics occurring in diverse roles such as the symmetries of differential equations and as central figures in the Langlands program for number theory In this book Professor Borel looks at the development of the theory of Lie groups and algebraic groups highlighting the evolution from the almost purely local theory at the start to the global theory that we know today As the starting point of this passage from local to global the author takes Lie's theory of local analytic transformation groups and Lie algebras He then follows the globalization of the process in its two most important frameworks transcendental differential geometry and algebraic geometry Chapters II to IV are devoted to the former Chapters V to VIII to the latter The essays in the first part of the book survey various proofs of the full reducibility of linear representations of $SL(2, \mathbb{C})$ the contributions of H Weyl to representation and invariant theory for Lie groups and conclude with a chapter on E Cartan's theory of symmetric spaces and Lie groups in the large The second part of the book starts with Chapter V describing the development of the theory of linear algebraic groups in the 19th century Many of the main contributions here are due to E Cartan and above all to L Maurer After being abandoned for nearly 50 years the theory was revived by Chevalley and Kolchin and then further developed by many others This is the focus of Chapter VI The book concludes with two chapters on various aspects of the works of Chevalley on Lie groups and algebraic groups and Kolchin on algebraic groups and the Galois theory of differential fields The author brings a unique perspective to this study As an important developer of some of the modern elements of both the differential geometric and the algebraic geometric sides of the theory he has a particularly deep appreciation of the underlying mathematics His lifelong involvement and his historical research in the subject give him a special appreciation of the story of its development

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

Representations of Reductive Groups Roger W. Carter, Meinolf Geck, 1998-09-03 This volume provides a very accessible introduction to the representation theory of reductive algebraic groups

Linear Algebraic Groups and Their Representations Richard S. Elman, Murray M. Schacher, V. S. Varadarajan, 1993 Brings together a wide variety of themes under a single unifying perspective The proceedings of a conference on Linear algebraic Groups and their Representations the text gets to grips with the fundamental nature of this subject and its interaction with a wide variety of active areas in mathematics and physics

Rational Representations of Algebraic Groups Stephen Donkin, 2006-11-14

Representations of Algebraic Groups Jens Carsten Jantzen, 2003-01-01 Now back in print by the AMS this is a significantly revised edition of a book originally published in 1987 by Academic Press

This book gives the reader an introduction to the theory of algebraic representations of reductive algebraic groups To develop appropriate techniques the first part of the book is an introduction to the general theory of representations of

algebraic group schemes Here the author describes important basic notions induction functors cohomology quotients Frobenius kernels and reduction mod p among others The second part of the book is devoted to the representation theory of reductive algebraic groups It includes topics such as the description of simple modules vanishing theorems the Borel Bott Weil theorem and Weyl's character formula and Schubert schemes and line bundles on them For this revised edition the author added nearly 150 pages of new material describing some later developments among them Schur algebras Lusztig's conjecture and Kazhdan Lusztig polynomials tilting modules and representations of quantum groups He also made major revisions to parts of the old text Jantzen's book continues to be the ultimate source of information on representations of algebraic groups in finite characteristics It is suitable for graduate students and research mathematicians interested in algebraic groups and their representations

Group Representations R.L. Lipsman, 2006-08-01 *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

Elements of the Representation Theory of the Jacobi Group Rolf Berndt, Ralf Schmidt, 2013-11-09 The Jacobi group is a semidirect product of a symplectic group with a Heisenberg group It is an important example for a non reductive group and sets the frame within which to treat theta functions as well as elliptic functions in particular the universal elliptic curve This text gathers for the first time material from the representation theory of this group in both local archimedean and non archimedean cases and in the global number field case Via a bridge to Waldspurger's theory for the metaplectic group complete classification theorems for irreducible representations are obtained Further topics include differential operators Whittaker models Hecke operators spherical representations and theta functions The global theory is aimed at the correspondence between automorphic representations and Jacobi forms This volume is thus a complement to the seminal book on Jacobi forms by M Eichler and D Zagier Incorporating results of the authors original research this exposition is meant for researchers and graduate students interested in algebraic groups and number theory in particular modular and automorphic forms

The Arcata Conference on Representations of Finite Groups, Part 1 Paul Fong, 1987 The papers in these proceedings of the 1986 Arcata Summer Institute bear witness to the extraordinarily vital and intense research in the representation theory of finite groups The confluence of diverse mathematical disciplines has brought forth work of great scope and depth Particularly striking is the influence of algebraic geometry and cohomology theory in the modular representation theory and the character theory of reductive groups over finite fields and in the general modular representation theory of finite groups The continuing developments in block theory and the general character theory of finite groups is noteworthy The expository and research aspects of the Summer Institute are well represented by these papers

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 Forty Years Of Algebraic Groups, Algebraic Geometry, And Representation Theory In China: In Memory Of The Centenary Year Of Xihua Cao's Birth Jie Du, Jianpan Wang, Lei Lin, 2022-10-21 Professor Xihua Cao 1920 2005 was a leading scholar at East China Normal University ECNU and a famous algebraist in China His contribution to the Chinese academic circle is particularly the formation of a world renowned ECNU School in algebra covering research areas include algebraic groups quantum groups algebraic geometry Lie algebra algebraic number theory representation theory and other hot fields In January 2020 in order to commemorate Professor Xihua Cao s centenary birthday East China Normal University held a three day academic conference Scholars at home and abroad gave dedications or delivered lectures in the conference This volume originates from the memorial conference collecting the dedications of scholars reminiscences of family members and 16 academic articles written based on the lectures in the conference covering a wide range of research hot topics in algebra The book shows not only scholars respect and memory for Professor Xihua Cao but also the research achievements of Chinese scholars at home and abroad **Representations of Fundamental Groups of Algebraic Varieties** Kang Zuo, 1999-12-15 Using harmonic maps non linear PDE and techniques from algebraic geometry this book enables the reader to study the relation between fundamental groups and algebraic geometry invariants of algebraic varieties The reader should have a basic knowledge of algebraic geometry and non linear analysis This book can form the basis for graduate level seminars in the area of topology of algebraic varieties It also contains present new techniques for researchers working in this area

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

The Enigmatic Realm of **Representations Of Algebraic Groups**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Representations Of Algebraic Groups** a literary masterpiece penned by way of a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of people who partake in its reading experience.

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