

Monica Nevins  
Peter E. Trapa  
Editors

# Representations of Reductive Groups

In Honor of the 60th Birthday of David  
A. Vogan, Jr.

# Representations Of Reductive Groups

**Alexander Stasiński**



## **Representations Of Reductive 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

*Representations of Reductive Groups* Avraham Aizenbud, Dmitry Gourevitch, David Kazhdan, Erez M. Lapid, 2019-02-20 This volume contains the proceedings of the Conference on Representation Theory and Algebraic Geometry held in honor of Joseph Bernstein from June 11 16 2017 at the Weizmann Institute of Science and The Hebrew University of Jerusalem The topics reflect the decisive and diverse impact of Bernstein on representation theory in its broadest scope The themes include representations of  $p$  adic groups and Hecke algebras in all characteristics representations of real groups and supergroups theta correspondence and automorphic forms

**Representations of Reductive Groups** Monica Nevins, Peter E. Trapa, 2015-12-18 Over the last forty years David Vogan has left an indelible imprint on the representation theory of reductive groups His groundbreaking ideas have led to deep advances in the theory of real and  $p$  adic groups and have forged lasting connections with other subjects including number theory automorphic forms algebraic geometry and combinatorics *Representations of Reductive Groups* is an outgrowth of the conference of the same name dedicated to David Vogan on his 60th birthday which took place at MIT on May 19 23 2014 This volume highlights the depth and breadth of Vogan's influence over the subjects mentioned above and point to many exciting new directions that remain to be explored Notably the first article by McGovern and Trapa offers an overview of Vogan's body of work placing his ideas in a historical context Contributors Pramod N Achar Jeffrey D Adams Dan Barbasch Manjul Bhargava Cécile Bonnaf Dan Ciubotaru Meinolf Geck William Graham Benedict H Gross Xuhua He Jing Song Huang Toshiyuki Kobayashi Bertram Kostant Wenjing Li George Lusztig Eric Marberg William M McGovern Wilfried Schmid Kari Vilonen Diana Shelstad Peter E Trapa David A Vogan Jr Nolan R Wallach Xiaoheng Wang Geordie Williamson

Unitary Representations of Reductive Lie Groups. (AM-118), Volume 118 David A. Vogan Jr., 2016-03-02 This book is an expanded version of the Hermann Weyl Lectures given at the Institute for Advanced Study in January 1986 It outlines some of what is now known about irreducible unitary representations of real reductive groups providing fairly complete definitions and references and sketches at least of most proofs The first half of the book is devoted to the three more or less understood constructions of such representations parabolic induction complementary series and cohomological parabolic induction This culminates in the description of all irreducible unitary representation of the general linear groups For other groups one expects to need a new construction giving unipotent representations The latter half of the book explains the evidence for that expectation and suggests a partial definition of unipotent representations

Representation Theory of Reductive Groups Trombi, 2013-03-13 This volume is the result of a conference on Representation Theory of Reductive Groups held in Park City Utah April 16 20 1982 under the auspices of the Department of Mathematics University of Utah Funding for the conference was provided by the National Science Foundation The text includes a number of original papers together with expository

articles on work already in print It is hoped that the volume will be of use to both experts in the field and nonspecialists interested in obtaining some insight into the area Principal organizers of the conference were Henryk Hecht Dragan Milić and Peter Trombi They would like to express their thanks to the National Science Foundation for their support to the speakers for their diligence in submitting their manuscripts and to Carla Curtis Karen Edge and Katherine Ruth for typing the manuscripts which were contributed v

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J Arthur Multipliers and a Paley Wiener theorem for real reductive groups

*Characters of Reductive Groups over a Finite Field. (AM-107), Volume 107* George Lusztig, 2016-03-02 This book presents a classification of all complex irreducible representations of a reductive group with connected centre over a finite field To achieve this the author uses étale intersection cohomology and detailed information on representations of Weyl groups

Real Reductive Groups I Nolan R. Wallach, 1988-03-01 Real Reductive Groups I is an introduction to the representation theory of real reductive groups It is based on courses that the author has given at Rutgers for the past 15 years It also had its genesis in an attempt of the author to complete a manuscript of the lectures that he gave at the CBMS regional conference at The University of North Carolina at Chapel Hill in June of 1981 This book comprises 10 chapters and begins with some background material as an introduction The following chapters then discuss elementary representation theory real reductive groups the basic theory of  $g$   $K$  modules the asymptotic behavior of matrix coefficients The Langlands Classification a construction of the fundamental series cusp forms on  $G$  character theory and unitary representations and  $g$   $K$  cohomology This book will be of interest to mathematicians and statisticians

**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

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 Real And P-adic Groups** Eng-chye Tan, Chen-bo Zhu, 2004-04-15 The Institute for Mathematical Sciences at the National University of Singapore hosted a research program on Representation Theory of Lie Groups from July 2002 to January 2003 As part of the program tutorials for graduate students and junior researchers were given by leading experts in the field This invaluable volume collects the expanded lecture notes of those tutorials The topics covered include uncertainty principles for locally compact abelian groups fundamentals of representations of  $p$  adic groups the Harish Chandra Howe local character expansion classification of the square integrable representations modulo cuspidal data Dirac cohomology and Vogan's conjecture multiplicity free actions and Schur Weyl Howe duality The lecturers include Tomasz Przebinda from the University of Oklahoma USA Gordan Savin from the University of Utah USA Stephen DeBacker from Harvard University USA Marko Tadi from the University of Zagreb Croatia Jing Song Huang from The Hong Kong University of Science and Technology Hong Kong Pavle Pandić from the University of Zagreb Croatia Chal Benson and Gail Ratcliff from East Carolina University USA and Roe Goodman from Rutgers University USA

*The Langlands Classification and Irreducible Characters for Real Reductive Groups* J. Adams, D. Barbasch, D.A. Vogan, 2012-12-06 This monograph explores the geometry of the local Langlands conjecture The conjecture predicts a parametrization of the irreducible representations of a reductive algebraic group over a local field in terms of the complex dual group and the Weil Deligne group For  $p$  adic fields this conjecture has not been proved but it has been refined to a detailed collection of conjectural relationships between  $p$  adic representation theory and geometry on the space of  $p$  adic representation theory and geometry on the space of  $p$  adic Langlands parameters This book provides an introduction to some modern geometric methods in representation theory It is addressed to graduate students and research workers in representation theory and in automorphic forms

**Representation Theory of Finite Groups: a Guidebook** David A. Craven, 2019-08-30 This book provides an accessible introduction to the state of the art of representation theory of finite groups Starting from a basic level that is summarized at the start the book proceeds to cover topics of current research interest including open problems and conjectures The central themes of the book are block theory and module theory of group representations which are comprehensively surveyed with a full bibliography The individual chapters cover a range of topics within the subject from blocks with cyclic defect groups to representations of symmetric groups Assuming only modest background knowledge at the level of a first graduate course in algebra this guidebook intended for students taking first steps in the field will also provide a reference for more experienced researchers Although

no proofs are included end of chapter exercises make it suitable for student seminars

*Representations of Reductive Groups Over Finite Rings and Extended Deligne-Lusztig Varieties* Alexander Stasiński, 2004

*Geometry and Representation Theory of Real and  $p$ -adic groups* Juan Tirao, David Vogan, Joe Wolf, 2012-12-06

The representation theory of Lie groups plays a central role in both classical and recent developments in many parts of mathematics and physics In August 1995 the Fifth Workshop on Representation Theory of Lie Groups and its Applications took place at the Universidad Nacional de Córdoba in Argentina Organized by Joseph Wolf Nolan Wallach Roberto Miatello Juan Tirao and Jorge Vargas the workshop offered expository courses on current research and individual lectures on more specialized topics The present volume reflects the dual character of the workshop Many of the articles will be accessible to graduate students and others entering the field Here is a rough outline of the mathematical content The editors beg the indulgence of the readers for any lapses in this preface in the high standards of historical and mathematical accuracy that were imposed on the authors of the articles Connections between flag varieties and representation theory for real reductive groups have been studied for almost fifty years from the work of Gelfand and Naimark on principal series representations to that of Beilinson and Bernstein on localization The article of Wolf provides a detailed introduction to the analytic side of these developments He describes the construction of standard tempered representations in terms of square integrable partially harmonic forms on certain real group orbits on a flag variety and outlines the ingredients in the Plancherel formula Finally he describes recent work on the complex geometry of real group orbits on partial flag varieties

*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

**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

Representation Theory and Analysis on Homogeneous Spaces Semen Grigor'evich Gindikin, 1994 A combination of new results and surveys of recent work on representation theory and the harmonic analysis of real and  $p$ -adic groups Among the topics are nilpotent homogeneous spaces multiplicity formulas for induced representations and new methods for constructing unitary representations of real reductive groups The 12 papers are from a conference at Rutgers University February 1993 No index Annotation copyright by Book News Inc Portland OR      *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 Lie Groups** Jeffrey Adams, David Vogan, 2015-06-02 This book contains written versions of the lectures given at the PCMI Graduate Summer School on the representation theory of Lie groups The volume begins with lectures by A Knapp and P Trapa outlining the state of the subject around the year 1975 specifically the fundamental results of Harish Chandra on the general structure of infinite dimensional representations and the Langlands classification Additional contributions outline developments in four of the most active areas of research over the past 20 years The clearly written articles present results to date as follows R Zierau and L Barchini discuss the construction of representations on Dolbeault cohomology spaces D Vogan describes the status of the Kirillov Kostant philosophy of coadjoint orbits for unitary representations K Vilonen presents recent advances in the Beilinson Bernstein theory of localization And Jian Shu Li covers Howe's theory of dual reductive pairs Each contributor to the volume presents the topics in a unique comprehensive and accessible manner geared toward advanced graduate students and researchers Students should have completed the standard introductory graduate courses for full comprehension of the work The book would also serve well as a supplementary text for a course on introductory infinite dimensional representation theory Titles in this series are co published with the Institute for Advanced Study Park City Mathematics Institute Members of the Mathematical Association of America MAA and the National Council of Teachers of Mathematics NCTM receive a 20% discount from list price      *Algebraic and Analytic Methods in Representation Theory*, 1996-09-27 This book is a compilation of several works from well recognized figures in the field of Representation Theory The presentation of the topic is unique in offering several different points of view which should make the book very useful to students and experts alike Presents several different points of view on key topics in representation theory from internationally known experts in the field

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