

# Real Reductive Groups I

NOEAN R. WALLACE

# Real Reductive Groups I

**Wilfried Schmid, James Arthur, Peter  
E. Trapa**



## Real Reductive Groups I:

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**Real Reductive Groups: Real reductive groups II** Nolan R. Wallach,1988

**Real Reductive Groups II** ,1992-08-06 Real Reductive Groups II

**Representations of Real Reductive Lie Groups** David A. Vogan,2016-06-09 This book describes the foundations of infinite dimensional representations of real reductive Lie groups There are three major topics First is the Langlands classification of irreducible representations This is done using a generalization of parabolic induction due to Zuckerman Second is the analysis of reducibility in certain standard families of representations Third is the formulation of Kazhdan and Lusztig s conjectural character formulas for arbitrary irreducible representations Since the first edition was published in 1981 the Kazhdan Lusztig conjectures have been proved and Zuckerman s construction has been connected to unitary representations This second edition summarizes those developments and other progress in the field

**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 parametrizations 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 and 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 Real Reductive Lie Groups* Wilfried Schmid, James Arthur, Peter E. Trapa,2008-10-17 The representation theory of real reductive groups is still incomplete in spite of much progress made thus far The papers in this volume were presented at the AMS IMS SIAM Joint Summer Research Conference Representation Theory of Real Reductive Lie Groups held in Snowbird Utah in June 2006 with the aim of elucidating the problems that remain as well as explaining what tools have recently become available to solve them They represent a significant improvement in the exposition of some of the most important and often least accessible aspects of the literature This volume will be of interest to graduate students working in the harmonic analysis and representation theory of Lie groups It will also appeal to experts working in closely related fields

*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 clas sical 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 Cordoba 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 vol ume 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 re ductive 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 introduc tion 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

Unitary Representations of Real Reductive Groups Jeffrey Adams, Marc A. A. van Leeuwen, Peter E. Trapa, 2020

**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 Mili ie 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

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

Representations of Real Reductive Lie Groups David A. Vogan Jr, 1981-01-01 A large and powerful algebraic theory for the study of infinite dimensional representations of real reductive Lie groups has been developed It already plays an important role even in purely analytic problems This book describes the foundations of that theory including some material not previously available in the literature There are three major topics The first is the Langlands construction and classification of the irreducible representations This is done using a generalization of parabolic induction due to Zuckerman The second topic is the analysis of reducibility in certain standard families of representations Finally conjectural character formulas for arbitrary irreducible representations are formulated An interpretation of the formulas in term of Goresky MacPherson cohomology generalizing the Kazhdan Lusztig conjecture for Verma modules is given

The Langlands Classification and Irreducible Characters for Real Reductive Groups Jeffrey Adams, Dan Barbasch, David A. Vogan, 1992 This monograph explores the geometry of the local Langlands conjecture The conjecture predicts a parametrizations 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. In the case of real groups the predicted parametrizations of representations was proved by Langlands himself. Unfortunately most of the deeper relations suggested by the  $p$ -adic theory between real representation theory and geometry on the space of real Langlands parameters are not true. The purpose of this book is to redefine the space of real Langlands parameters so as to recover these relationships informally to do Kazhdan-Lusztig theory on the dual group. The new definitions differ from the classical ones in roughly the same way that Deligne's definition of a Hodge structure differs from the classical one. 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.

**Harmonic Analysis on Real Reductive Groups** V.S. Varadarajan, 2006-11-14     *Unipotent Representations of Real Reductive Groups* Lucas David

Mason-Brown, 2020     *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 representations 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.

**Representations of Real Reductive Groups** Anthony W. Knap, 1990     [Representation Theory of Reductive Groups](#)  
Peter C. Trombi, 1983

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