

# Real Reductive Groups II

NOLAN R. WALLACH

# Real Reductive Groups I

**Juan Tirao, David Vogan, Joe Wolf**



## Real Reductive Groups I:

**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 *Real Reductive Groups I* Nolan R. Wallach, 1988-02-28

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forms on  $G$  character theory and unitary representations and  $g$   $K$  cohomology This book will be of interest to mathematicians and statisticians *Real Reductive Groups II*, 1992-08-06 Real Reductive Groups II **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 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 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 **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 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 In the case of real groups the predicted parametrization 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 and Representations of Semisimple Lie Groups** J.A. Wolf, M. Cahen, M. de Wilde, 2012-12-06 This book presents the text of the lectures which were given at the NATO Advanced Study Institute on Representations of Lie groups and

Harmonic Analysis which was held in Liege from September 5 to September 17 1977 The general aim of this Summer School was to give a coordinated introduction to the theory of representations of semisimple Lie groups and to non commutative harmonic analysis on these groups together with some glance at physical applications and at the related subject of random walks As will appear to the reader the order of the papers which follows relatively closely the order of the lectures which were actually given follows a logical pattern The two first papers are introductory the one by R Blattner describes in a very progressive way a path going from standard Fourier analysis on  $\mathbb{R}$  to non commutative harmonic analysis on a locally compact group the paper by J Wolf describes the structure of semisimple Lie groups the finite dimensional representations of these groups and introduces basic facts about infinite dimensional unitary representations Two of the editors want to thank particularly these two lecturers who were very careful to pave the way for the later lectures Both these chapters give also very useful guidelines to the relevant literature

*Representation Theory of Semisimple Groups* Anthony W.

Knapp, 2016-06-02 In this classic work Anthony W Knapp offers a survey of representation theory of semisimple Lie groups in a way that reflects the spirit of the subject and corresponds to the natural learning process This book is a model of exposition and an invaluable resource for both graduate students and researchers Although theorems are always stated precisely many illustrative examples or classes of examples are given To support this unique approach the author includes for the reader a useful 300 item bibliography and an extensive section of notes

*Representation Theory and Mathematical Physics* Jeffrey

Adams, Bong Lian, Siddhartha Sahi, 2011-11-07 This volume contains the proceedings of the conference on Representation Theory and Mathematical Physics in honor of Gregg Zuckerman's 60th birthday held October 24-27 2009 at Yale University Lie groups and their representations play a fundamental role in mathematics in particular because of connections to geometry topology number theory physics combinatorics and many other areas Representation theory is one of the cornerstones of the Langlands program in number theory dating to the 1970s Zuckerman's work on derived functors the translation principle and coherent continuation lie at the heart of the modern theory of representations of Lie groups One of the major unsolved problems in representation theory is that of the unitary dual The fact that there is in principle a finite algorithm for computing the unitary dual relies heavily on Zuckerman's work In recent years there has been a fruitful interplay between mathematics and physics in geometric representation theory string theory and other areas New developments on chiral algebras representation theory of affine Kac-Moody algebras and the geometric Langlands correspondence are some of the focal points of this volume Recent developments in the geometric Langlands program point to exciting connections between certain automorphic representations and dual fibrations in geometric mirror symmetry

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