

UNITARY REPRESENTATIONS
OF REDUCTIVE LIE GROUPS

BY

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Representations Of Real Reductive Lie Groups Progreb In Mathematics Volume 15

Rebecca Herb



Representations Of Real Reductive Lie Groups Progreb In Mathematics Volume 15:

Representations of Real Reductive Lie Groups Jr. Vogan, David, 2011-02 *Unitary Representations of Reductive Lie Groups* David A. Vogan, 1987-10-21 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 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 *Lie Groups Beyond an Introduction* Anthony W. Knap, 2013-03-09 Fifty years ago Claude Chevalley revolutionized Lie theory by publishing his classic *Theory of Lie Groups I* Before his book Lie theory was a mixture of local and global results As Chevalley put it This limitation was probably necessary as long as general topology was not yet sufficiently well elaborated to provide a solid base for a theory in the large These days are now passed Indeed they are passed because Chevalley's book changed matters Chevalley made global Lie groups into the primary objects of study In his third and fourth chapters he introduced the global notion of an analytic subgroup so that Lie subalgebras corresponded exactly to analytic subgroups This correspondence is now taken as absolutely standard and any introduction to general Lie groups has to have it at its core Nowadays local Lie groups are a thing of the past they arise only at one point in the development and only until Chevalley's results have been stated and have eliminated the need for the local theory But where does the theory go from this point Fifty years after Chevalley's book there are clear topics E Cartan's completion of W Killing's work on classifying complex semisimple Lie algebras the treatment of finite dimensional representations of complex semisimple Lie algebras and compact Lie groups by Cartan and H Weyl the structure theory begun by Cartan for real semisimple Lie algebras and Lie groups and harmonic analysis in the setting of semisimple groups as begun by Cartan and Weyl **Lie Groups** Claudio Procesi, 2006-10-12 Lie groups has been an increasing area of focus

and rich research since the middle of the 20th century In *Lie Groups An Approach through Invariants and Representations* the author's masterful approach gives the reader a comprehensive treatment of the classical Lie groups along with an extensive introduction to a wide range of topics associated with Lie groups symmetric functions theory of algebraic forms Lie algebras tensor algebra and symmetry semisimple Lie algebras algebraic groups group representations invariants Hilbert theory and binary forms with fields ranging from pure algebra to functional analysis By covering sufficient background material the book is made accessible to a reader with a relatively modest mathematical background Historical information examples exercises are all woven into the text This unique exposition is suitable for a broad audience including advanced undergraduates graduates mathematicians in a variety of areas from pure algebra to functional analysis and mathematical physics

Lie Groups Daniel Bump, 2013-10-01 This book is intended for a one year graduate course on Lie groups and Lie algebras The book goes beyond the representation theory of compact Lie groups which is the basis of many texts and provides a carefully chosen range of material to give the student the bigger picture The book is organized to allow different paths through the material depending on one's interests This second edition has substantial new material including improved discussions of underlying principles streamlining of some proofs and many results and topics that were not in the first edition For compact Lie groups the book covers the Peter Weyl theorem Lie algebra conjugacy of maximal tori the Weyl group roots and weights Weyl character formula the fundamental group and more The book continues with the study of complex analytic groups and general noncompact Lie groups covering the Bruhat decomposition Coxeter groups flag varieties symmetric spaces Satake diagrams embeddings of Lie groups and spin Other topics that are treated are symmetric function theory the representation theory of the symmetric group Frobenius Schur duality and $GL(n, \mathbb{C})/GL(m, \mathbb{C})$ duality with many applications including some in random matrix theory branching rules Toeplitz determinants combinatorics of tableaux Gelfand pairs Hecke algebras the philosophy of cusp forms and the cohomology of Grassmannians An appendix introduces the reader to the use of Sage mathematical software for Lie group computations

Compact Lie Groups and Their Representations Dmitrii Petrovich Zhelobenko, Program For Scientific Translations Israel, 1973 The contents of this volume are somewhat different from the traditional connotations of the title First the author bearing in mind the needs of the physicist has tried to make the exposition as elementary as possible The need for an elementary exposition has influenced the distribution of the material the book is divided into three largely independent parts arranged in order of increasing difficulty Besides compact Lie groups groups with other topological structure similar to compact groups in some sense are considered Prominent among these are reductive complex Lie groups including semisimple groups obtained from compact Lie groups by analytic continuation and also their real forms reductive real Lie groups The theory of finite dimensional representation for these classes of groups is developed striving whenever possible to emphasize the compact origin of these representations i.e. their analytic relationship to representations of compact Lie groups Also studied are infinite dimensional representations of semisimple complex Lie

algebras Some aspects of the theory of infinite dimensional representations of Lie groups are presented in a brief survey

Representation of Lie Groups and Related Topics Anatoliï Moiseevich Vershik, Dmitriï Petrovich Zhelobenko, 1990 Eight papers provide mature readers with careful review of progress through about 1983 toward the creation of a theory of the representations of infinite dimensional Lie groups and algebras and of some related topics Recent developments in physics have provided major impetus for the development of such a theory and the volume will be of special interest to mathematical physicists quantum field theorists Translated from the Russian edition of unstated date and beautifully produced which at the price it should be Book club price 118 NW Annotation copyrighted by Book News Inc Portland OR

The Structure of Complex Lie Groups Dong Hoon Lee, 2001-08-31 Complex Lie groups have often been used as auxiliaries in the study of real Lie groups in areas such as differential geometry and representation theory To date however no book has fully explored and developed their structural aspects The Structure of Complex Lie Groups addresses this need Self contained it begins with general concepts

Lie Groups, Lie Algebras, and Their Representations V. S. Varadarajan, 1974 **Non-Spherical Principal Series Representations of a Semisimple Lie Group** Alfred Magnus, 1979 Non spherical principal series representations of a real semisimple Lie group are studied These are representations induced by a one dimensional representation of a minimal parabolic subgroup which have a one dimensional subspace left stable by a maximal compact subgroup of the original group G Necessary and sufficient conditions for such a representation to be irreducible or to be cyclic are found in terms of parameters determined by certain rank one subgroups of G A sufficient condition for such a representation to be unitary is found and the condition is shown to be necessary in the rank one case

Representations of Nilpotent Lie Groups and Their Applications: Volume 1, Part 1, Basic Theory and Examples Laurence Corwin, Frederick P. Greenleaf, 1990-08-30 The first exposition of group representations and harmonic analysis for graduates for over twenty years

Lie Groups, Lie Algebras, and Their Representations V. S. Varadarajan, 2014-01-15 **Real Productive Groups I** Nolan R. Wallach, 1988-03-13 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

Representations of Real Reductive Lie Groups David A. Vogan (jr.), 1981

Lie Groups and Lie Algebras III A. L. Onishchik, 1994 Real Reductive Groups II, 1992-08-06 Real

Reductive Groups II **An Introduction to Lie Groups and Lie Algebras** Alexander A. Kirillov, 2008-07-31 This book is an

introduction to semisimple Lie algebras It is concise and informal with numerous exercises and examples **Lie group representations** Rebecca Herb, 2014-01-15 A Survey of Lie Groups and Lie Algebras with Applications and Computational Methods Johan G. F. Belinfante, Bernard Kolman, 1989-01-01 Introduces the concepts and methods of the Lie theory in a form accessible to the non specialist by keeping mathematical prerequisites to a minimum Although the authors have concentrated on presenting results while omitting most of the proofs they have compensated for these omissions by including many references to the original literature Their treatment is directed toward the reader seeking a broad view of the subject rather than elaborate information about technical details Illustrations of various points of the Lie theory itself are found throughout the book in material on applications In this reprint edition the authors have resisted the temptation of including additional topics Except for correcting a few minor misprints the character of the book especially its focus on classical representation theory and its computational aspects has not been changed

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