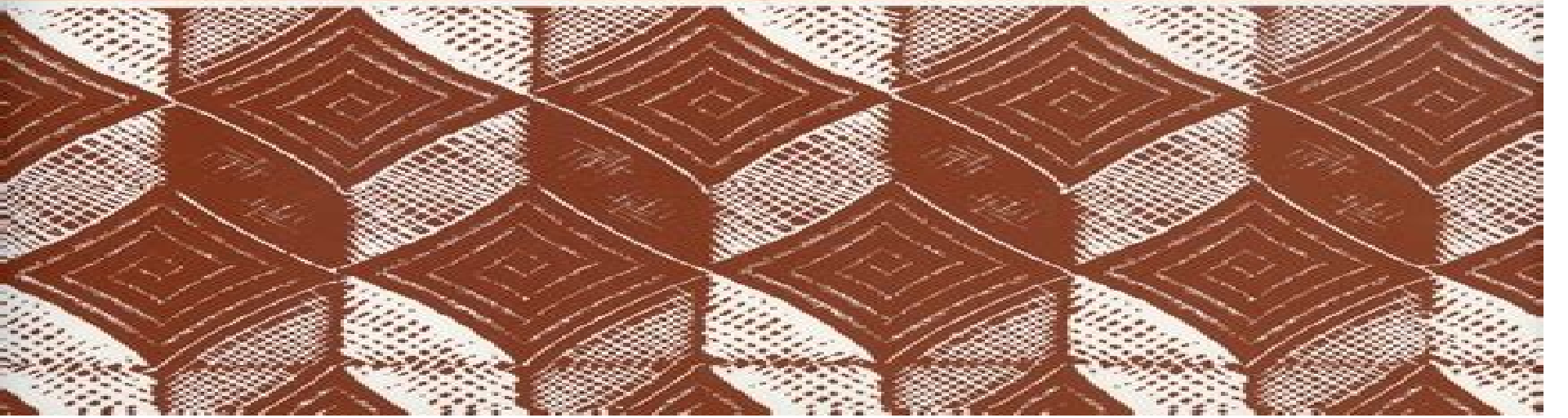


Cohomological Induction and Unitary Representations

ANTHONY W. KNAPP
AND
DAVID A. VOGAN, JR.



Cohomological Induction And Unitary Representations

Cohomological Induction And Unitary Representations

Patrick Delorme, Michèle Vergne



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Cohomological Induction and Unitary Representations Anthony W. Knapp, David A. Vogan Jr., 2016-06-02 This book offers a systematic treatment the first in book form of the development and use of cohomological induction to construct unitary representations George Mackey introduced induction in 1950 as a real analysis construction for passing from a unitary representation of a closed subgroup of a locally compact group to a unitary representation of the whole group Later a parallel construction using complex analysis and its associated co homology theories grew up as a result of work by Borel Weil Harish Chandra Bott Langlands Kostant and Schmid Cohomological induction introduced by Zuckerman is an algebraic analog that is technically more manageable than the complex analysis construction and leads to a large repertory of irreducible unitary representations of reductive Lie groups The book which is accessible to students beyond the first year of graduate school will interest mathematicians and physicists who want to learn about and take advantage of the algebraic side of the representation theory of Lie groups Cohomological Induction and Unitary Representations develops the necessary background in representation theory and includes an introductory chapter of motivation a thorough treatment of the translation principle and four appendices on algebra and analysis *Cohomological Induction and Unitary Representations*

Anthony W. Knapp, 1995 **Unipotent Representations, Theta Correspondences, and Quantum Induction** Hongyu He, 2024-08-19 View the abstract *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 *The Penrose Transform and Analytic Cohomology in Representation Theory* Michael G. Eastwood, 1993

This book contains refereed papers presented at the AMS IMS SIAM Summer Research Conference on the Penrose Transform and Analytic Cohomology in Representation Theory held in the summer of 1992 at Mount Holyoke College The conference brought together some of the top experts in representation theory and differential geometry One of the issues explored at the conference was the fact that various integral transforms from representation theory complex integral geometry and mathematical physics appear to be instances of the same general construction which is sometimes called the Penrose transform There is considerable scope for further research in this area and this book would serve as an excellent introduction **Noncommutative Harmonic Analysis** Patrick Delorme, Michèle Vergne, 2012-12-06 Dedicated to Jacques

Carmona an expert in noncommutative harmonic analysis the volume presents excellent invited refereed articles by top notch mathematicians Topics cover general Lie theory reductive Lie groups harmonic analysis and the Langlands program automorphic forms and Kontsevich quantization Good text for researchers and grad students in representation theory

New Perspectives in Algebraic Combinatorics Louis J. Billera, 1999-09-28 This text contains expository contributions by respected researchers on the connections between algebraic geometry topology commutative algebra representation theory and convex geometry *Lecture Notes on Chern-Simons-Witten Theory* Sen Hu, E. Witten, 2001 This monograph is based on lectures on topological quantum field theory given in 1989 at Princeton University by E Witten in which he unified several important mathematical works in terms of the Donaldson polynomial Gromov Floer homology and Jones polynomials Witten explained his three dimensional construction of Jones polynomials an elegant construction of a new polynomial invariant in three dimensional space per the author via quantization of Chern Simons gauge theory Hu Princeton U adds missing details and some new developments in the field Annotation copyrighted by Book News Inc Portland OR 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 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 Geometric Methods in Physics XXXVI Piotr Kielanowski, Anatol Odziejewicz, Emma Previato, 2019-03-11 This book collects papers based on the XXXVI Biowie a Workshop on Geometric Methods in Physics 2017 The Workshop which attracts a community of experts active at the crossroads of mathematics and physics represents a major annual event in the field Based on presentations given at the Workshop the papers gathered here are previously unpublished at the cutting edge of current research and primarily grounded in geometry and analysis with applications to classical and quantum physics In addition a Special Session was dedicated to S Twareque Ali a distinguished mathematical physicist at Concordia University Montreal who passed away in

January 2016 For the past six years the Bia owie a Workshops have been complemented by a School on Geometry and Physics comprising a series of advanced lectures for graduate students and early career researchers The extended abstracts of this year s lecture series are also included here The unique character of the Workshop and School series is due in part to the venue a famous historical cultural and environmental site in the Bia owie a forest a UNESCO World Heritage Centre in eastern Poland Lectures are given in the Nature and Forest Museum and local traditions are interwoven with the scientific activities

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