The Admissible Dual of GL(N) via Compact Open Subgroups. (AM-129) (Annals of Mathematics Studies)

Bushnell, C.

The Admissible Dual Of Gl Annals Of Mathematics Studies

Minde Cheng, Dong-gao Deng, Sheng Gong, Chung-Chun Yang

The Admissible Dual Of Gl Annals Of Mathematics Studies:

The Admissible Dual of GL(N) via Compact Open Subgroups. (AM-129), Volume 129 Colin J. Bushnell, P. C. Kutzko, 2016-03-02 This work gives a full description of a method for analyzing the admissible complex representations of the general linear group G Gl N F of a non Archimedean local field F in terms of the structure of these representations when they are restricted to certain compact open subgroups of G The authors define a family of representations of these compact open subgroups which they call simple types The first example of a simple type the trivial type is the trivial character of an Iwahori subgroup of G The irreducible representations of G containing the trivial simple type are classified by the simple modules over a classical affine Hecke algebra Via an isomorphism of Hecke algebras this classification is transferred to the irreducible representations of G containing a given simple type This leads to a complete classification of the irreduc ible smooth representations of G including an explicit description of the supercuspidal representations as induced representations A special feature of this work is its virtually complete reliance on algebraic methods of a ring theoretic kind A full and accessible account of these methods is given here The Local Langlands Conjecture for GL(2) Colin J. Bushnell, Guy Henniart, 2006-08-29 If F is a non Archimedean local field local class field theory can be viewed as giving a canonical bijection between the characters of the multiplicative group GL 1 F of F and the characters of the Weil group of F If n is a positive integer the n dimensional analogue of a character of the multiplicative group of F is an irreducible smooth representation of the general linear group GL n F The local Langlands Conjecture for GL n postulates the existence of a canonical bijection between such objects and n dimensional representations of the Weil group generalizing class field theory This conjecture has now been proved for all F and n but the arguments are long and rely on many deep ideas and techniques This book gives a complete and self contained proof of the Langlands conjecture in the case n 2 It is aimed at graduate students and at researchers in related fields It presupposes no special knowledge beyond the beginnings of the representation theory of finite groups and the structure theory of local fields It uses only local methods with no appeal to harmonic analysis on adele groups 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 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 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 Ottawa Lectures on Admissible Representations of Reductive P-adic Groups Clifton Automorphic Representations and L-Functions for the General Linear Cunningham, Monica Nevins, 2009-01-01 **Group: Volume 2** Dorian Goldfeld, Joseph Hundley, 2011-04-21 This graduate level textbook provides an elementary exposition of the theory of automorphic representations and L functions for the general linear group in an adelic setting Definitions are kept to a minimum and repeated when reintroduced so that the book is accessible from any entry point and with no prior knowledge of representation theory The book includes concrete examples of global and local representations of GL n and presents their associated L functions In Volume 1 the theory is developed from first principles for GL 1 then carefully extended to GL 2 with complete detailed proofs of key theorems Several proofs are presented for the first time including Jacquet's simple and elegant proof of the tensor product theorem In Volume 2 the higher rank situation of GL n is given a detailed treatment Containing numerous exercises by Xander Faber this book will motivate students and researchers to begin working in this fertile field of research 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 Eisenstein Series and Automorphic \$L\$-Functions Freydoon Shahidi,2025-04-07 This book presents a treatment of the theory of L functions developed by means of the theory of Eisenstein series and their Fourier coefficients a theory which is usually referred to as

the Langlands Shahidi method The information gathered from this method when combined with the converse theorems of Cogdell and Piatetski Shapiro has been quite sufficient in establishing a number of new cases of Langlands functoriality conjecture at present some of these cases cannot be obtained by any other method. These results have led to far reaching new estimates for Hecke eigenvalues of Maass forms as well as definitive solutions to certain problems in analytic and algebraic number theory. This book gives a detailed treatment of important parts of this theory including a rather complete proof of Casselman Shalika's formula for unramified Whittaker functions as well as a general treatment of the theory of intertwining operators It also covers in some detail the global aspects of the method as well as some of its applications to group representations and harmonic analysis This book is addressed to graduate students and researchers who are interested in the Langlands program in automorphic forms and its connections with number theory **Automorphic Forms and Galois Representations: Volume 1** Fred Diamond, Payman L. Kassaei, Minhyong Kim, 2014-10-16 Automorphic forms and Galois representations have played a central role in the development of modern number theory with the former coming to prominence via the celebrated Langlands program and Wiles proof of Fermat's Last Theorem This two volume collection arose from the 94th LMS EPSRC Durham Symposium on Automorphic Forms and Galois Representations in July 2011 the aim of which was to explore recent developments in this area The expository articles and research papers across the two volumes reflect recent interest in p adic methods in number theory and representation theory as well as recent progress on topics from anabelian geometry to p adic Hodge theory and the Langlands program The topics covered in volume one include the Shafarevich Conjecture effective local Langlands correspondence p adic L functions the fundamental lemma and other topics of contemporary interest Automorphic Forms and Galois Representations Fred Diamond, Payman L. Kassaei, Minhyong Kim, 2014-10-16 Part one of a two volume collection exploring recent developments in number theory related to automorphic forms and Galois representations An Introduction to the Langlands Program Joseph Bernstein, Stephen Gelbart, 2013-12-11 For the past several decades the theory of automorphic forms has become a major focal point of development in number theory and algebraic geometry with applications in many diverse areas including combinatorics and mathematical physics The twelve chapters of this monograph present a broad user friendly introduction to the Langlands program that is the theory of automorphic forms and its connection with the theory of L functions and other fields of mathematics Covered are a variety of areas in number theory from the classical zeta function up to the Langlands program The exposition is sytematic with each chapter focusing on a particular topic devoted to special cases of the program and accessible to graduate students and researchers in the field Unitarizability in Corank Three for Classical \$p\$-adic Groups Marko Tadi?,2023-06-22 View the abstract Automorphic Forms and Related Geometry: Assessing the Legacy of I.I. <u>Piatetski-Shapiro</u> James W. Cogdell, Freydoon Shahidi, David Soudry, 2014-04-01 This volume contains the proceedings of the conference Automorphic Forms and Related Geometry Assessing the Legacy of I I Piatetski Shapiro held from April 23 27

2012 at Yale University New Haven CT Ilya I Piatetski Shapiro who passed away on 21 February 2009 was a leading figure in the theory of automorphic forms The conference attempted both to summarize and consolidate the progress that was made during Piatetski Shapiro s lifetime by him and a substantial group of his co workers and to promote future work by identifying fruitful directions of further investigation It was organized around several themes that reflected Piatetski Shapiro s main foci of work and that have promise for future development functoriality and converse theorems local and global functions and their periods adic functions and arithmetic geometry complex geometry and analytic number theory In each area there were talks to review the current state of affairs with special attention to Piatetski Shapiro s contributions and other talks to report on current work and to outline promising avenues for continued progress The contents of this volume reflect most of the talks that were presented at the conference as well as a few additional contributions They all represent various aspects of the legacy of Piatetski Shapiro 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

Harmonic Analysis in China Minde Cheng, Dong-gao Deng, Sheng Gong, Chung-Chun Yang, 2012-12-06 Harmonic Analysis in China is a collection of surveys and research papers written by distinguished Chinese mathematicians from within the People's Republic of China and expatriates The book covers topics in analytic function spaces of several complex variables integral transforms harmonic analysis on classical Lie groups and manifolds LP estimates of the Cauchy Riemann equations and wavelet transforms The reader will also be able to trace the great influence of the late Professor Loo keng Hua s ideas and methods on research into harmonic analysis on classical domains and the theory of functions of several complex variables Western scientists will thus become acquainted with the unique features and future trends of harmonic analysis in China Audience Analysts as well as engineers and physicists who use harmonic analysis **Families of Automorphic** Forms and the Trace Formula Werner Müller, Sug Woo Shin, Nicolas Templier, 2016-09-20 Featuring the work of twenty three internationally recognized experts this volume explores the trace formula spectra of locally symmetric spaces p adic families and other recent techniques from harmonic analysis and representation theory Each peer reviewed submission in this volume based on the Simons Foundation symposium on families of automorphic forms and the trace formula held in Puerto Rico in January February 2014 is the product of intensive research collaboration by the participants over the course of the seven day workshop The goal of each session in the symposium was to bring together researchers with diverse specialties in order to identify key difficulties as well as fruitful approaches being explored in the field The respective themes were counting cohomological forms p adic trace formulas Hecke fields slopes of modular forms and orbital integrals The

Mathematical Legacy of Harish-Chandra Robert S. Doran, 2000 Harish Chandra was a mathematician of great power vision and remarkable ingenuity His profound contributions to the representation theory of Lie groups harmonic analysis and related areas left researchers a rich legacy that continues today This book presents the proceedings of an AMS Special Session entitled Representation Theory and Noncommutative Harmonic Analysis A Special Session Honoring the Memory of Harish Chandra which marked 75 years since his birth and 15 years since his untimely death at age 60 Contributions to the volume were written by an outstanding group of internationally known mathematicians Included are expository and historical surveys and original research papers The book also includes talks given at the IAS Memorial Service in 1983 by colleagues who knew Harish Chandra well Also reprinted are two articles entitled Some Recollections of Harish Chandra by A Borel and Harish Chandra's c Function A Mathematical Jewel by S Helgason In addition an expository paper An Elementary Introduction to Harish Chandra's Work gives an overview of some of his most basic mathematical ideas with references for further study This volume offers a comprehensive retrospective of Harish Chandra's professional life and work Personal recollections give the book particular significance Readers should have an advanced level background in the representation theory of Lie groups and harmonic analysis To an Effective Local Langlands Correspondence Colin J. Bushnell, Guy Henniart, 2014-08-12 Let F be a non Archimedean local field Let mathcal W F be the Weil group of F and mathcal P F the wild inertia subgroup of mathcal W F Let widehat mathcal W F be the set of equivalence classes of irreducible smooth representations of mathcal W F Let mathcal A 0 n F denote the set of equivalence classes of irreducible cuspidal representations of mathrm GL n F and set widehat mathrm GL F bigcup n ge 1 mathcal A 0 n F If sigma in widehat mathcal W F let L sigma in widehat mathrm GL F be the cuspidal representation matched with sigma by the Langlands Correspondence If sigma is totally wildly ramified in that its restriction to mathcal P F is irreducible the authors treat L sigma as known From that starting point the authors construct an explicit bijection mathbb N widehat mathcal W F to widehat mathrm GL F sending sigma to N sigma The authors compare this navve correspondence with the Langlands correspondence and so achieve an effective description of the latter modulo the totally wildly ramified case A key tool is a novel operation of internal twisting of a suitable representation pi of mathcal W F or mathrm GL n F by tame characters of a tamely ramified field extension of F canonically associated to pi The authors show this operation is preserved by the Langlands correspondence Interactions of Quantum Affine Algebras with Cluster Algebras, Current Algebras and Categorification Jacob Greenstein, David Hernandez, Kailash C. Misra, Prasad Senesi, 2022-03-11 This volume collects chapters that examine representation theory as connected with affine Lie algebras and their quantum analogues in celebration of the impact Vyjayanthi Chari has had on this area The opening chapters are based on mini courses given at the conference Interactions of Quantum Affine Algebras with Cluster Algebras Current Algebras and Categorification held on the occasion of Chari s 60th birthday at the Catholic University of America in Washington D C June 2018 The chapters that follow present a

broad view of the area featuring surveys original research and an overview of Vyjayanthi Chari s significant contributions. Written by distinguished experts in representation theory a range of topics are covered including String diagrams and categorification Quantum affine algebras and cluster algebras Steinberg groups for Jordan pairs Dynamical quantum determinants and Pfaffians Interactions of Quantum Affine Algebras with Cluster Algebras Current Algebras and Categorification will be an ideal resource for researchers in the fields of representation theory and mathematical physics

Harmonic Analysis on Reductive, \$p\$-adic Groups Robert S. Doran, Paul J. Sally, Jr., and Loren Spice, 2011

This book delves into The Admissible Dual Of Gl Annals Of Mathematics Studies. The Admissible Dual Of Gl Annals Of Mathematics Studies is a vital topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into The Admissible Dual Of Gl Annals Of Mathematics Studies, encompassing both the fundamentals and more intricate discussions.

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