Harmonic Analysis on Reductive Groups

William Barker
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Harmonic Analysis on Reductive Groups W. Barker,P. Sally,2012-12-06 A conference on Harmonic Analysis on Reductive Groups was held at Bowdoin College in Brunswick Maine from July 31 to August 11 1989 The stated goal of the conference was to explore recent advances in harmonic analysis on both real and p adic groups It was the first conference since the AMS Summer Sym posium on Harmonic Analysis on Homogeneous Spaces held at Williamstown Massachusetts in 1972 to cover local harmonic analysis on reductive groups in such detail and to such an extent While the Williamstown conference was longer three weeks and somewhat broader nilpotent groups solvable groups as well as semisimple and reductive groups the structure and timeliness of the two meetings was remarkably similar The program of the Bowdoin Conference consisted of two parts First there were six major lecture series each consisting of several talks addressing those topics in harmonic analysis on real and p adic groups which were the focus of intensive research during the previous decade These lectures began at an introductory level and advanced to the current state of research Sec ond there was a series of single lectures in which the speakers presented an overview of their latest research   *Harmonic Analysis on Reductive Groups* W. Barker,P. Sally,1991-12-01 A conference on Harmonic Analysis on Reductive Groups was held at Bowdoin College in Brunswick Maine from July 31 to August 11 1989 The stated goal of the conference was to explore recent advances in harmonic analysis on both real and p adic groups It was the first conference since the AMS Summer Sym posium on Harmonic Analysis on Homogeneous Spaces held at Williamstown Massachusetts in 1972 to cover local harmonic analysis on reductive groups in such detail and to such an extent While the Williamstown conference was longer three weeks and somewhat broader nilpotent groups solvable groups as well as semisimple and reductive groups the structure and timeliness of the two meetings was remarkably similar The program of the Bowdoin Conference consisted of two parts First there were six major lecture series each consisting of several talks addressing those topics in harmonic analysis on real and p adic groups which were the focus of intensive research during the previous decade These lectures began at an introductory level and advanced to the current state of research Sec ond there was a series of single lectures in which the speakers presented an overview of their latest research   **Hyperfunctions and Harmonic Analysis on Symmetric Spaces** Henrik Schlichtkrull,2012-12-06 During the last ten years a powerful technique for the study of partial differential equations with regular singularities has developed using the theory of hyperfunctions The technique has had several important applications in harmonic analysis for symmetric spaces This book gives an introductory exposition of the theory of hyperfunctions and regular singularities and on this basis it treats two major applications to harmonic analysis The first is to the proof of Helgason s conjecture due to Kashiwara et al which represents eigenfunctions on Riemannian symmetric spaces as Poisson integrals of their hyperfunction boundary values A generalization of this result involving the full boundary of the space is also given The second topic is the construction of discrete series for semisimple symmetric spaces with an unpublished proof due to Oshima of a conjecture of

Flensted Jensen This first English introduction to hyperfunctions brings readers to the forefront of research in the theory of harmonic analysis on symmetric spaces A substantial bibliography is also included This volume is based on a paper which was awarded the 1983 University of Copenhagen Gold Medal Prize **Representation Theory of Real Reductive Lie Groups** James Arthur,Wilfried Schmid,Peter E. Trapa,2008 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 BOOK JACKET

Representation Theory and Harmonic Analysis Ray Alden Kunze,1995 This volume stems from a special session on representation theory and harmonic analysis held in honour of Ray Kunze at the 889th meeting of the American Mathematical Society on January 12 15 1994 It is intended for graduate students and research mathematicians interested in topological groups lie groups and abstract harmonic analysis *Harmonic Analysis, the Trace Formula, and Shimura Varieties* Clay Mathematics Institute. Summer School,2005 Langlands program proposes fundamental relations that tie arithmetic information from number theory and algebraic geometry with analytic information from harmonic analysis and group representations This title intends to provide an entry point into this exciting and challenging field Real Reductive Groups II ,1992-08-06 Real Reductive Groups II Representation Theory, Number Theory, and Invariant Theory Jim Cogdell,Ju-Lee Kim,Chen-Bo Zhu,2017-10-19 This book contains selected papers based on talks given at the Representation Theory Number Theory and Invariant Theory conference held at Yale University from June 1 to June 5 2015 The meeting and this resulting volume are in honor of Professor Roger Howe on the occasion of his 70th birthday whose work and insights have been deeply influential in the development of these fields The speakers who contributed to this work include Roger Howe s doctoral students Roger Howe himself and other world renowned mathematicians Topics covered include automorphic forms invariant theory representation theory of reductive groups over local fields and related subjects

Symmetry in Geometry and Analysis, Volume 3 Michael Pevzner,Hideko Sekiguchi,2025-02-10 Symmetry in Geometry and Analysis is a Festschrift honoring Toshiyuki Kobayashi The three volumes feature 35 selected contributions from invited speakers of twin conferences held in June 2022 in Reims France and in September 2022 in Tokyo Japan These contributions highlight the profound impact of Prof Kobayashi s pioneering ideas groundbreaking discoveries and significant achievements in the development of analytic representation theory noncommutative harmonic analysis and the geometry of discontinuous groups beyond the Riemannian context among other areas over the past four decades This third volume of the Festschrift

contains original articles on branching problems in representation theory of reductive Lie groups and related topics Contributions are by Ali Baklouti Hidenori Fujiwara Dmitry Gourevitch Masatoshi Kitagawa Salma Nasrin Yoshiki Oshima and Petr Somberg   Algebraic and Analytic Methods in Representation Theory ,1996-09-27 This book is a compilation of several works from well recognized figures in the field of Representation Theory The presentation of the topic is unique in offering several different points of view which should makethe book very useful to students and experts alike Presents several different points of view on key topics in representation theory from internationally known experts in the field

Symmetry in Geometry and Analysis, Volume 1 Michael Pevzner,Hideko Sekiguchi,2025-02-09 Symmetry in Geometry and Analysis is a Festschrift honoring Toshiyuki Kobayashi The three volumes feature 35 selected contributions from invited speakers of twin conferences held in June 2022 in Reims France and in September 2022 in Tokyo Japan These contributions highlight the profound impact of Prof Kobayashi s pioneering ideas groundbreaking discoveries and significant achievements in the development of analytic representation theory noncommutative harmonic analysis and the geometry of discontinuous groups beyond the Riemannian context among other areas over the past four decades The first volume of the Festschrift includes a survey article on Kobayashi s innovative contributions to Mathematics emphasizing their influence and introducing new perspectives across various fields Original articles contained in Volume 1 focus on differential geometry with symmetries as well as algebraic and geometric aspects of representation theory of reductive Lie groups and related topics Contributions are by Velleda Baldoni Dan Barbasch Leticia Barchini Sigiswald Barbier Yves Benoist Sam Claerebout Michael Eastwood Wee Teck Gan William M Goldman Roger Howe Kazuki Kannaka Toshihisa Kubo Hung Yean Loke Jia Jun Ma Reiko Miyaoka Kento Ogawa Takayuki Okuda Yoshiki Oshima Paul mile Paradan Annegret Paul Michael Pevzner Yiannis Sakellaridis Atsumi Sasaki Gordan Savin Hideko Sekiguchi Binyong Sun Yuichiro Tanaka Koichi Tojo Peter Trapa Mich le Vergne Joseph A Wolf Kayue Daniel Wong and Chen Bo Zhu The Mathematical Work of Toshiyuki Kobayashi is available open access under a Creative Commons Attribution 4 0 International License via link springer com   Trends in Representation Theory of Algebras and Related Topics Andrzej Skowroński,2008 This book is concerned with recent trends in the representation theory of algebras and its exciting interaction with geometry topology commutative algebra Lie algebras quantum groups homological algebra invariant theory combinatorics model theory and theoretical physics The collection of articles written by leading researchers in the field is conceived as a sort of handbook providing easy access to the present state of knowledge and stimulating further development The topics under discussion include diagram algebras Brauer algebras cellular algebras quasi hereditary algebras Hall algebras Hecke algebras symplectic reflection algebras Cherednik algebras Kashiwara crystals Fock spaces preprojective algebras cluster algebras rank varieties varieties of algebras and modules moduli of representations of quivers semi invariants of quivers Cohen Macaulay modules singularities coherent sheaves derived categories spectral representation theory Coxeter polynomials Auslander Reiten theory Calabi Yau

triangulated categories Poincare duality spaces selfinjective algebras periodic algebras stable module categories Hochschild cohomologies deformations of algebras Galois coverings of algebras tilting theory algebras of small homological dimensions representation types of algebras and model theory This book consists of fifteen self contained expository survey articles and is addressed to researchers and graduate students in algebra as well as a broader mathematical community They contain a large number of open problems and give new perspectives for research in the field *Symmetry, Representations, and Invariants* Roe Goodman,Nolan R. Wallach,2009-07-30 Symmetry is a key ingredient in many mathematical physical and biological theories Using representation theory and invariant theory to analyze the symmetries that arise from group actions and with strong emphasis on the geometry and basic theory of Lie groups and Lie algebras Symmetry Representations and Invariants is a significant reworking of an earlier highly acclaimed work by the authors The result is a comprehensive introduction to Lie theory representation theory invariant theory and algebraic groups in a new presentation that is more accessible to students and includes a broader range of applications The philosophy of the earlier book is retained i e presenting the principal theorems of representation theory for the classical matrix groups as motivation for the general theory of reductive groups The wealth of examples and discussion prepares the reader for the complete arguments now given in the general case Key Features of Symmetry Representations and Invariants 1 Early chapters suitable for honors undergraduate or beginning graduate courses requiring only linear algebra basic abstract algebra and advanced calculus 2 Applications to geometry curvature tensors topology Jones polynomial via symmetry and combinatorics symmetric group and Young tableaux 3 Self contained chapters appendices comprehensive bibliography 4 More than 350 exercises most with detailed hints for solutions further explore main concepts 5 Serves as an excellent main text for a one year course in Lie group theory 6 Benefits physicists as well as mathematicians as a reference work *Lectures on the Arthur-Selberg Trace Formula* Stephen S. Gelbart,1996 The Arthur Selberg trace formula is an equality between two kinds of traces the geometric terms given by the conjugacy classes of a group and the spectral terms given by the induced representations In general these terms require a truncation in order to converge which leads to an equality of truncated kernels The formulas are difficult in general and even the case of GL 2 is nontrivial The book gives proof of Arthur s trace formula of the 1970s and 1980s with special attention given to GL 2 The problem is that when the truncated terms converge they are also shown to be polynomial in the truncation variable and expressed as weighted orbital and weighted characters In some important cases the trace formula takes on a simple form over G The author gives some examples of this and also some examples of Jacquet s relative trace formula This work offers for the first time a simultaneous treatment of a general group with the case of GL 2 It also treats the trace formula with the example of Jacquet s relative formula Features Discusses why the terms of the geometric and spectral type must be truncated and why the resulting truncations are polynomials in the truncation of value T Brings into play the significant tool of G M families and how the theory of Paley Weiner is applied Explains why the truncation

formula reduces to a simple formula involving only the elliptic terms on the geometric sides with the representations appearing cuspidally on the spectral side applies to Tamagawa numbers Outlines Jacquet s trace formula and shows how it works for GL 2 **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 **In Memoriam Marc Yor - Séminaire de Probabilités XLVII** Catherine Donati-Martin,Antoine Lejay,Alain Rouault,2015-09-07 This volume is dedicated to the memory of Marc Yor who passed away in 2014 The invited contributions by his collaborators and former students bear testament to the value and diversity of his work and of his research focus which covered broad areas of probability theory The volume also provides personal recollections about him and an article on his essential role concerning the Doeblin documents With contributions by P Salminen J Y Yen J Warren T Funaki J Pitman J F Le Gall L Alili P Graczyk K Yano D Bakry A Aksamit T Choulli J Pitman J Obloj P Spoida P Biane J Najnudel P Fitzsimmons Y Le Jan L C G Rogers E Azmoodeh G Peccati P Baldi N Demni A Rouault N O Connell N Ikeda A Comtet P Bougerol L Chaumont L Devroye D Stroock and M Emery **Level One Algebraic Cusp Forms of Classical Groups of Small Rank** Gaëtan Chenevier, David A. Renard,2015-08-21 The authors determine the number of level 1 polarized algebraic regular cuspidal automorphic representations of GLn over Q of any given infinitesimal character for essentially all n 8 For this they compute the dimensions of spaces of level 1 automorphic forms for certain semisimple Z forms of the compact groups SO7 SO8 SO9 and G2 and determine Arthur s endoscopic partition of these spaces in all cases They also give applications to the 121 even lattices of rank 25 and determinant 2 found by Borcherds to level one self dual automorphic representations of GLn with trivial infinitesimal character and to vector valued Siegel modular forms of genus 3 A part of the authors results are conditional to certain expected results in the theory of twisted endoscopy New Developments in Lie Theory and Geometry Carolyn Gordon,2009 This volume is an outgrowth of the Sixth Workshop on Lie Theory and Geometry held in the province of Cordoba Argentina in November 2007 The representation theory and structure theory of Lie groups play a pervasive role throughout mathematics and physics Lie groups are tightly intertwined with geometry and each stimulates developments in the other The aim of this volume is to bring to a larger audience the mutually beneficial interaction between Lie theorists and geometers that animated the workshop Two prominent themes of the

representation theoretic articles are Gelfand pairs and the representation theory of real reductive Lie groups Among the more geometric articles are an exposition of major recent developments on noncompact homogeneous Einstein manifolds and aspects of inverse spectral geometry presented in settings accessible to readers new to the area **L-Functions and Automorphic Forms** Jan Hendrik Bruinier,Winfried Kohnen,2018-02-22 This book presents a collection of carefully refereed research articles and lecture notes stemming from the Conference Automorphic Forms and L Functions held at the University of Heidelberg in 2016 The theory of automorphic forms and their associated L functions is one of the central research areas in modern number theory linking number theory arithmetic geometry representation theory and complex analysis in many profound ways The 19 papers cover a wide range of topics within the scope of the conference including automorphic L functions and their special values p adic modular forms Eisenstein series Borcherds products automorphic periods and many more   Nilpotent Orbits In Semisimple Lie Algebra William.M. McGovern,2017-10-19 Through the 1990s a circle of ideas emerged relating three very different kinds of objects associated to a complex semisimple Lie algebra nilpotent orbits representations of a Weyl group and primitive ideals in an enveloping algebra The principal aim of this book is to collect together the important results concerning the classification and properties of nilpotent orbits beginning from the common ground of basic structure theory The techniques used are elementary and in the toolkit of any graduate student interested in the harmonic analysis of representation theory of Lie groups The book develops the Dynkin Konstant and Bala Carter classifications of complex nilpotent orbits derives the Lusztig Spaltenstein theory of induction of nilpotent orbits discusses basic topological questions and classifies real nilpotent orbits The classical algebras are emphasized throughout here the theory can be simplified by using the combinatorics of partitions and tableaux The authors conclude with a survey of advanced topics related to the above circle of ideas This book is the product of a two quarter course taught at the University of Washington

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