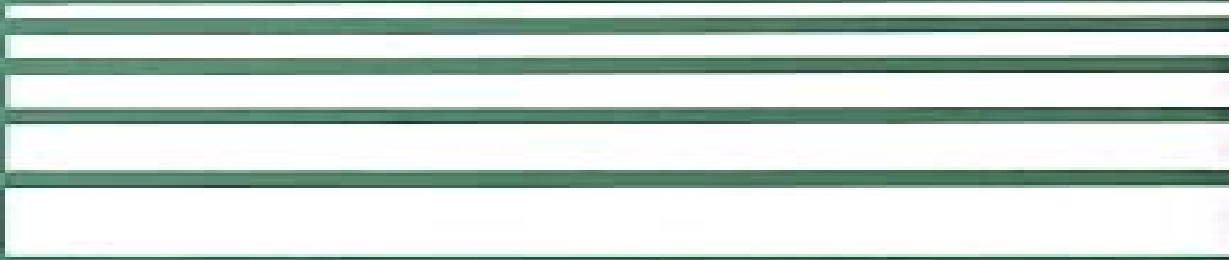


Progress in Mathematics



New Developments in Lie Theory and Their Applications

Juan Tirao
Nolan Wallach
Editors



Birkhäuser

New Developments In Lie Theory And Their Applications

Sinnou David



New Developments In Lie Theory And Their Applications:

New Developments in Lie Theory and Their Applications Juan Tirao, Wallach, 2012-12-06 Representation theory and more generally Lie theory has played a very important role in many of the recent developments of mathematics and in the interaction of mathematics with physics In August September 1989 a workshop Third Workshop on Representation Theory of Lie Groups and its Applications was held in the environs of Córdoba Argentina to present expositions of important recent developments in the field that would be accessible to graduate students and researchers in related fields This volume contains articles that are edited versions of the lectures and short courses given at the workshop Within representation theory one of the main open problems is to determine the unitary dual of a real reductive group Although this problem is as yet unsolved the recent work of Barbasch Vogan Arthur as well as others has shed new light on the structure of the problem The article of D Vogan presents an exposition of some aspects of this problem emphasizing an extension of the orbit method of Kostant Kirillov Several examples are given that explain why the orbit method should be extended and how this extension should be implemented

New Developments in Lie Theory and Their Applications Juan Tirao, 1992-10-01 **Recent Advances in Harmonic Analysis and Partial Differential Equations** Andrea R. Nahmod, 2012 This volume is based on the AMS Special Session on Harmonic Analysis and Partial Differential Equations and the AMS Special Session on Nonlinear Analysis of Partial Differential Equations both held March 12-13 2011 at Georgia Southern University Statesboro Georgia as well as the JAMI Conference on Analysis of PDEs held March 21-25 2011 at Johns Hopkins University Baltimore Maryland These conferences all concentrated on problems of current interest in harmonic analysis and PDE with emphasis on the interaction between them This volume consists of invited expositions as well as research papers that address prospects of the recent significant development in the field of analysis and PDE The central topics mainly focused on using Fourier spectral and geometrical methods to treat wellposedness scattering and stability problems in PDE including dispersive type evolution equations higher order systems and Sobolev spaces theory that arise in aspects of mathematical physics The study of all these problems involves state of the art techniques and approaches that have been used and developed in the last decade The interrelationship between the theory and the tools reflects the richness and deep connections between various subjects in both classical and modern analysis

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 Córdoba 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 introduc tion 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

A Guide to Quantum Groups Vyjayanthi Chari, Andrew N. Pressley, 1995-07-27 Since they first arose in the 1970s and early 1980s quantum groups have proved to be of great interest to mathematicians and theoretical physicists The theory of quantum groups is now well established as a fascinating chapter of representation theory and has thrown new light on many different topics notably low dimensional topology and conformal field theory The goal of this book is to give a comprehensive view of quantum groups and their applications The authors build on a self contained account of the foundations of the subject and go on to treat the more advanced aspects concisely and with detailed references to the literature Thus this book can serve both as an introduction for the newcomer and as a guide for the more experienced reader All who have an interest in the subject will welcome this unique treatment of quantum groups

The Complex WKB Method for Nonlinear Equations I Victor P. Maslov, 1994-08-01 This book deals with asymptotic solutions of linear and nonlinear equa tions which decay as $h \rightarrow 0$ outside a neighborhood of certain points curves and surfaces Such solutions are almost everywhere well approximated by the functions $c_p(x) \exp iS(x, h)$ where $S(x)$ is complex and $\text{Im} S(x) \leq 0$ When the phase $S(x)$ is real $\text{Im} S(x) = 0$ the method for obtaining asymp totics of this type is known in quantum mechanics as the WKB method We preserve this terminology in the case $\text{Im} S(x) < 0$ and develop the method for a wide class of problems in mathematical physics Asymptotics of this type were constructed recently for many linear prob lems of mathematical physics certain specific formulas were obtained by differ ent methods V M Babich 5 7 V P Lazutkin 76 A A Sokolov 1 M Ter nov 113 J Schwinger 107 108 E J Heller 53 G A Hagedorn 50 51 V N Bayer V M Katkov 21 N A Chernikov 35 and others However a general Hamiltonian formalism for obtaining asymptotics of this type is clearly required this state of affairs is expressed both in recent mathematical and physical literature For example the editors of the collected volume 106 write in its preface One can hope that in the near future a computational pro cedure for fields with complex phase similar to the usual one for fields with real phase will be developed

Recent Advances in Group Theory and Their Application to Spectroscopy John C. Donini, 2012-12-06 The last few years have seen a resurgence in the applications of group theory to the problems posed by various characteristics of transition metals and lanthanides In particular with the commercial availability of more sophisticated experimental tech niques such as Magnetic Circular Dichroism M C D Electron Paramagnetic Resonance E P R

or ESR and Single Crystal Polarised Spectra experimental data of a much more sophisticated and selective nature than the old stand by absorption spectra and magnetic susceptibility has become available This new wealth of high quality experimental data thus presents challenges of interpretation and organization of the data which the new developments in group theory strive to meet The wealth and quality of this new data makes the nuances and differences implicit in the traditional strong and weak field approach testable Thus these approaches can be tested more fully and new formalisms can be meaningfully tested by comparison to experiment Hence the characteristic implicit in the strong and weak field approaches are revealed by studies into their formal structures as exemplified by Drs E König S Kremer and S Piepho Similarly works proceed apace on the knotty problem of correlation and generalization of these properties through approaches such as those of Drs P H Butler J C Donini and M Kibler On a similar vein the deep structure of group representation and correlations of representation of various groups is explored by the aforementioned and by Drs Fritzer Patera and Sharp

Module Theory Alberto Facchini, 1998-06-16 This expository monograph was written for three reasons Firstly we wanted to present the solution to a problem posed by Wolfgang Krull in 1932 Krull 32 He asked whether what we now call the Krull Schmidt Theorem holds for artinian modules The problem remained open for 63 years its solution a negative answer to Krull's question was published only in 1995 see Facchini Herbera Levy and Vámos Secondly we wanted to present the answer to a question posed by Warfield in 1975 Warfield 75 He proved that every finitely presented module over a serial ring is a direct sum of uniserial modules and asked if such a decomposition was unique In other words Warfield asked whether the Krull Schmidt Theorem holds for serial modules The solution to this problem a negative answer again appeared in Facchini 96 Thirdly the solution to Warfield's problem shows interesting behavior a rare phenomenon in the history of Krull Schmidt type theorems Essentially the Krull Schmidt Theorem holds for some classes of modules and not for others When it does hold any two indecomposable decompositions are uniquely determined up to a permutation and when it does not hold for a class of modules this is proved via an example For serial modules the Krull Schmidt Theorem does not hold but any two indecomposable decompositions are uniquely determined up to two permutations We wanted to present such a phenomenon to a wider mathematical audience

Representations of Finite Dimensional Algebras and Related Topics in Lie Theory and Geometry Vlastimil Dlab, Claus Michael Ringel, 2004 These proceedings are from the Tenth International Conference on Representations of Algebras and Related Topics ICRA X held at The Fields Institute In addition to the traditional instructional workshop preceding the conference there were also workshops on Commutative Algebra Algebraic Geometry and Representation Theory Finite Dimensional Algebras Algebraic Groups and Lie Theory and Quantum Groups and Hall Algebras These workshops reflect the latest developments and the increasing interest in areas that are closely related to the representation theory of finite dimensional associative algebras Although these workshops were organized separately their topics are strongly interrelated The workshop on Commutative Algebra Algebraic Geometry and

Representation Theory surveyed various recently established connections such as those pertaining to the classification of vector bundles or Cohen Macaulay modules over Noetherian rings coherent sheaves on curves or ideals in Weyl algebras In addition methods from algebraic geometry or commutative algebra relating to quiver representations and varieties of modules were presented The workshop on Finite Dimensional Algebras Algebraic Groups and Lie Theory surveyed developments in finite dimensional algebras and infinite dimensional Lie theory especially as the two areas interact and may have future interactions The workshop on Quantum Groups and Hall Algebras dealt with the different approaches of using the representation theory of quivers and species in order to construct quantum groups working either over finite fields or over the complex numbers In particular these proceedings contain a quite detailed outline of the use of perverse sheaves in order to obtain canonical bases The book is recommended for graduate students and researchers in algebra and geometry

Challenges for the Twenty-first Century Louis Hsiao Yun Chen, 2001 The International Conference on Fundamental Sciences Mathematics and Theoretical Physics provided a forum for reviewing some of the significant developments in mathematics and theoretical physics in the 20th century for the leading theorists in these fields to expound and discuss their views on new ideas and trends in the basic sciences as the new millennium approached for increasing public awareness of the importance of basic research in mathematics and theoretical physics and for promoting a high level of interest in mathematics and theoretical physics among school students and teachers This was a major conference with invited lectures by some of the leading experts in various fields of mathematics and theoretical physics

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

Representations of Reductive Groups

Monica Nevins, Peter E. Trapa, 2015-12-18 Over the last forty years David Vogan has left an indelible imprint on the representation theory of reductive groups. His groundbreaking ideas have led to deep advances in the theory of real and p -adic groups and have forged lasting connections with other subjects including number theory, automorphic forms, algebraic geometry, and combinatorics. *Representations of Reductive Groups* is an outgrowth of the conference of the same name dedicated to David Vogan on his 60th birthday which took place at MIT on May 19-23, 2014. This volume highlights the depth and breadth of Vogan's influence over the subjects mentioned above and points to many exciting new directions that remain to be explored. Notably, the first article by McGovern and Trapa offers an overview of Vogan's body of work, placing his ideas in a historical context. Contributors: Pramod N. Achar, Jeffrey D. Adams, Dan Barbasch, Manjul Bhargava, Cécile Bonnafant, Dan Ciubotaru, Meinolf Geck, William Graham, Benedict H. Gross, Xuhua He, Jing Song Huang, Toshiyuki Kobayashi, Bertram Kostant, Wenjing Li, George Lusztig, Eric Marberg, William M. McGovern, Wilfried Schmid, Kari Vilonen, Diana Shelstad, Peter E. Trapa, David A. Vogan Jr., Nolan R. Wallach, Xiaoheng Wang, Geordie Williamson. **Séminaire de Théorie Des Nombres** Sinnou David, 1993 Based on the lectures given at the Séminaire de Théorie des Nombres de Paris in 1990-1991, this collection of papers reflects work in many areas of number theory including cubic exponential sums, Riemann's period relations, and Galois representations attached to points on Shimura varieties. Elements of the Representation Theory of the Jacobi Group Rolf Berndt, Ralf Schmidt, 1998 The Jacobi group is a semidirect product of a symplectic group with a Heisenberg group. It is an important example for a non-reductive group and sets the frame within which to treat theta functions as well as elliptic functions in particular the universal elliptic curve. This text gathers for the first time material from the representation theory of this group in both local archimedean and non-archimedean cases and in the global number field case. Via a bridge to Waldspurger's theory for the metaplectic group, complete classification theorems for irreducible representations are obtained. Further topics include differential operators, Whittaker models, Hecke operators, spherical representations, and theta functions. The global theory is aimed at the correspondence between automorphic representations and Jacobi forms. This volume is thus a complement to the seminal book on Jacobi forms by M. Eichler and D. Zagier. Incorporating results of the author's original research, this exposition is meant for researchers and graduate students interested in algebraic groups and number theory in particular modular and automorphic forms. Functional Analysis on the Eve of the 21st Century Simon Gindikin, James Lepowsky, Robert Wilson, 2012-12-06 A four-day conference *Functional Analysis on the Eve of the Twenty-First Century* was held at Rutgers University, New Brunswick, New Jersey from October 24 to 27, 1993 in honor of the eightieth birthday of Professor Israel Moiseyevich Gelfand. He was born in Krasnyye Okna near Odessa on September 2, 1913. Israel Gelfand has played a crucial role in the development of functional analysis during the last half century. His work and his philosophy have in fact helped to shape our understanding of the term functional analysis itself as has the celebrated journal *Functional Analysis and Its Applications* which he edited for many years. Functional analysis appeared at the beginning of the century in

the classic papers of Hilbert on integral operators Its crucial aspect was the geometric interpretation of families of functions as infinite dimensional spaces and of operators particularly differential and integral operators as infinite dimensional analogues of matrices directly leading to the geometrization of spectral theory This view of functional analysis as infinite dimensional geometry organically included many facets of nineteenth century classical analysis such as power series Fourier series and integrals and other integral transforms

Algebraic Geometry and Singularities Antonio Campillo Lopez, Luis Narvaez Macarro, 2012-12-06 The focus of this volume lies on singularity theory in algebraic geometry It includes papers documenting recent and original developments and methods in subjects such as resolution of singularities D module theory singularities of maps and geometry of curves The papers originate from the Third International Conference on Algebraic Geometry held in La Rbida Spain in December 1991 Since then the articles have undergone a meticulous process of refereeing and improvement and they have been organized into a comprehensive account of the state of the art in this field

Mathematical Reviews, 2004 **Compactifications of Symmetric and Locally Symmetric Spaces** Armand Borel, Lizhen Ji, 2006-07-25 Noncompact symmetric and locally symmetric spaces naturally appear in many mathematical theories including analysis representation theory nonabelian harmonic analysis number theory automorphic forms algebraic geometry modulae and algebraic topology cohomology of discrete groups In most applications it is necessary to form an appropriate compactification of the space The literature dealing with such compactifications is vast The main purpose of this book is to introduce uniform constructions of most of the known compactifications with emphasis on their geometric and topological structures The book is divided into three parts Part I studies compactifications of Riemannian symmetric spaces and their arithmetic quotients Part II is a study of compact smooth manifolds Part III studies the compactification of locally symmetric spaces Familiarity with the theory of semisimple Lie groups is assumed as is familiarity with algebraic groups defined over the rational numbers in later parts of the book although most of the pertinent material is recalled as presented Otherwise the book is a self contained reference aimed at graduate students and research mathematicians interested in the applications of Lie theory and representation theory to diverse fields of mathematics

Functional Calculus of Pseudodifferential Boundary Problems Gerd Grubb, 2012-12-06 Pseudodifferential methods are central to the study of partial differential equations because they permit an algebraization A replacement of compositions of operators in n space by simpler product rules for their symbols The main purpose of this book is to set up an operational calculus for operators defined from differential and pseudodifferential boundary value problems via a resolvent construction A secondary purpose is to give a complete treatment of the properties of the calculus of pseudodifferential boundary problems with transmission both the first version by Boutet de Monvel brought completely up to date in this edition and in version containing a parameter running in an unbounded set And finally the book presents some applications to evolution problems index theory fractional powers spectral theory and singular perturbation theory In this second edition the author has extended the scope

and applicability of the calculus with original contributions and perspectives developed in the years since the first edition. A main improvement is the inclusion of globally estimated symbols allowing a treatment of operators on noncompact manifolds. Many proofs have been replaced by new and simpler arguments giving better results and clearer insights. The applications to specific problems have been adapted to use these improved and more concrete techniques. Interest continues to increase among geometers and operator theory specialists in the Boutet de Monvel calculus and its various generalizations. Thus the book's improved proofs and modern points of view will be useful to research mathematicians and to graduate students studying partial differential equations and pseudodifferential operators.

Harmonic Morphisms Between Riemannian Manifolds Paul Baird, John C. Wood, 2003. This is an account in book form of the theory of harmonic morphisms between Riemannian manifolds.

This book delves into New Developments In Lie Theory And Their Applications. New Developments In Lie Theory And Their Applications is a crucial topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into New Developments In Lie Theory And Their Applications, encompassing both the fundamentals and more intricate discussions.

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- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of New Developments In Lie Theory And Their Applications.

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