# Geometry and Representation Theory of Real and p-Adic Groups

Juan Tirao David A. Vogan, Jr. Joseph A. Wolf Editors

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# **Geometry And Representation Theory Of Real And P Adic Groups**

F. Bethuel, G. Huisken, S. Mueller, K. Steffen

#### Geometry And Representation Theory Of Real And P Adic Groups:

Geometry and Representation Theory of Real and P-Adic Groups Juan Tirao, David Vogan, Joe Wolf, 1997-11-18 Geometry and Representation Theory of Real and p-adic groups Juan Tirao, 1998 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 vol ume 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 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 clas sical 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 reductive 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 **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 authors original research this exposition is meant for researchers and graduate students interested in algebraic groups and number theory in particular modular and automorphic forms Kac-Moody Groups, their Flag Varieties and Representation Theory Shrawan Kumar, 2012-12-06 Kac Moody Lie algebras 9 were introduced in the mid 1960s independently by V Kac and R Moody generalizing the finite dimensional semisimple Lie alge bras which we refer to as the finite case The theory has undergone tremendous developments in various directions and connections with diverse areas abound including mathematical physics so much so that this theory has become a stan dard tool in mathematics A detailed treatment of the Lie algebra aspect of the theory can be found in V Kac s book Kac 90l This self contained work treats the algebro geometric and the topological aspects of Kac Moody theory from scratch The emphasis is on the study of the Kac Moody groups 9 and their flag varieties XY including their detailed construction and their applications to the representation theory of g In the finite case 9 is nothing but a semisimple Y simply connected algebraic group and X is the flag variety 9 Py for a parabolic subgroup py C g

Geometric Analysis and Applications to Quantum Field Theory Peter Bouwknegt, Siye Wu, 2012-12-06 In the last decade there has been an extraordinary confluence of ideas in mathematics and theoretical physics brought about by pioneering discoveries in geometry and analysis The various chapters in this volume treating the interface of geometric analysis and mathematical physics represent current research interests No suitable succinct account of the material is available elsewhere Key topics include A self contained derivation of the partition function of Chern Simons gauge theory in the semiclassical approximation D H Adams Algebraic and geometric aspects of the Knizhnik Zamolodchikov equations in conformal field theory P Bouwknegt Application of the representation theory of loop groups to simple models in quantum field theory and to certain integrable systems A L Carey and E Langmann A study of variational methods in Hermitian geometry from the viewpoint of the critical points of action functionals together with physical backgrounds A Harris A review of monopoles in nonabelian gauge theories M K Murray Exciting developments in quantum cohomology Y Ruan The physics origin of Seiberg Witten equations in 4 manifold theory S Wu Graduate students mathematicians and mathematical physicists in the above mentioned areas will benefit from the user friendly introductory style of each chapter as well as the

comprehensive bibliographies provided for each topic Prerequisite knowledge is minimal since sufficient background material motivates each chapter 

Calculus of Variations and Geometric Evolution Problems F. Bethuel, G. Huisken, S. Mueller, K. Steffen, 1999-10-19 The international summer school on Calculus of Variations and Geometric Evolution Problems was held at Cetraro Italy 1996 The contributions to this volume reflect quite closely the lectures given at Cetraro which have provided an image of a fairly broad field in analysis where in recent years we have seen many important contributions Among the topics treated in the courses were variational methods for Ginzburg Landau equations variational models for microstructure and phase transitions a variational treatment of the Plateau problem for surfaces of prescribed mean curvature in Riemannian manifolds both from the classical point of view and in the setting of geometric measure theory

Complex Convexity and Analytic Functionals Mats Andersson, Mikael Passare, Ragnar Sigurdsson, 2012-12-06 A set in complex Euclidean space is called C convex if all its intersections with complex lines are contractible and it is said to be linearly convex if its complement is a union of complex hyperplanes. These notions are intermediates between ordinary geometric convexity and pseudoconvexity Their importance was first manifested in the pioneering work of Andr Martineau from about forty years ago Since then a large number of new related results have been obtained by many different mathematicians The present book puts the modern theory of complex linear convexity on a solid footing and gives a thorough and up to date survey of its current status Applications include the Fantappi transformation of analytic functionals integral representation formulas polynomial interpolation and solutions to linear partial differential equations on the Heisenberg Group Sundaram Thangavelu, 2012-12-06 The Heisenberg group plays an important role in several branches of mathematics such as representation theory partial differential equations number theory several complex variables and quantum mechanics This monograph deals with various aspects of harmonic analysis on the Heisenberg group which is the most commutative among the non commutative Lie groups and hence gives the greatest opportunity for generalizing the remarkable results of Euclidean harmonic analysis The aim of this text is to demonstrate how the standard results of abelian harmonic analysis take shape in the non abelian setup of the Heisenberg group Thangavelu's exposition is clear and well developed and leads to several problems worthy of further consideration Any reader who is interested in pursuing research on the Heisenberg group will find this unique and self contained text invaluable Markov Chains and Invariant Probabilities Onesimo Hernandez-Lerma, Jean B. Lasserre, 2003-02-24 This book is about discrete time time homogeneous Markov chains Mes and their ergodic behavior To this end most of the material is in fact about stable Mes by which we mean Mes that admit an invariant probability measure To state this more precisely and give an overview of the questions we shall be dealing with we will first introduce some notation and terminology Let X B be a measurable space and consider a X valued Markov chain k k 0 1 with transition probability function t pJ P x B i e P x B Prob k 1 E B I k x for each x EXBEB and k01 The Me is said to be stable if there exists a probability measure pml on B such that VBEBlBIxldxPx

B If holds then l is called an invariant p m for the Me or the t p f P **Groups and Geometries** Lino Di Martino, William Kantor, Guglielmo Lunardon, Antonio Pasini, Maria Clara Tamburini, 2013-12-01 On September 1 7 1996 a conference on Groups and Geometries took place in lovely Siena Italy It brought together experts and interested mathematicians from numerous countries The scientific program centered around invited exposi tory lectures there also were shorter research announcements including talks by younger researchers The conference concerned a broad range of topics in group theory and geometry with emphasis on recent results and open problems Special attention was drawn to the interplay between group theoretic methods and geometric and combinatorial ones Expanded versions of many of the talks appear in these Proceedings This volume is intended to provide a stimulating collection of themes for a broad range of algebraists and geometers Among those themes represented within the conference or these Proceedings are aspects of the following 1 the classification of finite simple groups 2 the structure and properties of groups of Lie type over finite and algebraically closed fields of finite characteristic 3 buildings and the geometry of projective and polar spaces and 4 geometries of sporadic simple groups We are grateful to the authors for their efforts in providing us with manuscripts in LaTeX Barbara Priwitzer and Thomas Hintermann Mathematics Editors of Birkhauser have been very helpful and supportive throughout the preparation of Introduction to Liaison Theory and Deficiency Modules Juan C. Migliore, 1998-08-25 In the fall of 1992 I this volume was invited by Professor Changho Keem to visit Seoul National University and give a series of talks I was asked to write a monograph based on my talks and the result was published by the Global Analysis Research Center of that University in 1994 The monograph treated deficiency modules and liaison theory for complete intersections Over the next several years I continually thought of improvements and additions that I would like to make to the manuscript and at the same time my research led me in directions that gave me a fresh perspective on much of the material especially in the direction of liaison theory This re sulted in a dramatic change in the focus of this manuscript from complete intersections to Gorenstein ideals and a substantial amount of additions and revisions It is my hope that this book now serves not only as an introduction to a beautiful subject but also gives the reader a glimpse at very recent developments and an idea of the direction in which liaison theory is going at least from my perspective One theme which I have tried to stress is the tremendous amount of geometry which lies at the heart of the subject and the beautiful interplay between algebra and geometry Whenever possible I have given remarks and examples to illustrate this interplay and I have tried to phrase the results in as geometric a way as possible Six Lectures on Commutative Algebra J. Elias, J. M. Giral, Rosa M. Miró-Roig, Santiago Zarzuela, 1998-06-16 Interest in commutative algebra has surged over the past decades In order to survey and highlight recent developments in this rapidly expanding field the Centre de Recerca Matematica in Bellaterra organized a ten days Summer School on Commutative Algebra in 1996 Lectures were presented by six high level specialists L Avramov Purdue M K Green UCLA C Huneke Purdue P Schenzel Halle G Valla Genova and W V Vasconcelos Rutgers providing a fresh and extensive account of

the results techniques and problems of some of the most active areas of research The present volume is a synthesis of the lectures given by these authors Research workers as well as graduate students in commutative algebra and nearby areas will find a useful overview of the field and recent developments in it Reviews All six articles are at a very high level they provide a thorough survey of results and methods in their subject areas illustrated with algebraic or geometric examples Acta Scientiarum Mathematicarum Avramov lecture it contains all the major results on infinite free resolutions it explains carefully all the different techniques that apply it provides complete proofs This will be extremely helpful for the novice as well as the experienced Mathematical reviews Huneke lecture The topic is tight closure a theory developed by M Hochster and the author which has in a short time proved to be a useful and powerful tool The paper is extremely well organized written and motivated Zentralblatt MATH Schenzel lecture this paper is an excellent introduction to applications of local cohomology Zentralblatt MATH Valla lecture since he is an acknowledged expert on Hilbert functions and since his interest has been so broad he has done a superb job in giving the readers a lively picture of the theory Mathematical reviews Vasconcelos lecture This is a very useful survey on invariants of modules over noetherian rings relations between them and how to compute them Zentralblatt MATH Bifurcations of Planar Vector Fields and Hilbert's Sixteenth Problem Robert Roussarie, 1998-05-19 In a coherent exhaustive and progressive way this book presents the tools for studying local bifurcations of limit cycles in families of planar vector fields A systematic introduction is given to such methods as division of an analytic family of functions in its ideal of coefficients and asymptotic expansion of non differentiable return maps and desingularisation The exposition moves from classical analytic geometric methods applied to regular limit periodic sets to more recent tools for singular limit sets The methods can be applied to theoretical problems such as Hilbert s 16th problem but also for the purpose of establishing bifurcation diagrams of specific families as well as explicit computations The book as a whole is a well balanced exposition that can be recommended to all those who want to gain a thorough understanding and proficiency in the recently developed methods The book reflecting the current state of the art can also be used for teaching special courses Mathematical Reviews **Introduction to Vertex Operator Algebras and Their Representations** James Lepowsky, Haisheng Li, 2004 Introduces the fundamental theory of vertex operator algebras and its basic techniques and examples Begins with a detailed presentation of the theoretical foundations and proceeds to a range of applications Includes a number of new original results and brings fresh perspective to important works of many other researchers in algebra lie theory representation theory string theory quantum field theory and other areas of math and physics **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 Perspectives in Representation Theory Pavel Etingof, Mikhail Khovanov, Alistair Savage, 2014-03-11 This volume contains the proceedings of the conference Perspectives in Representation Theory held from May 12 17 2012 at Yale University in honor of Igor Frenkel's 60th birthday The aim of the conference was to present current progress on the following interrelated topics vertex operator algebras and chiral algebras conformal field theory the geometric Langlands program affine Lie algebras Kac Moody algebras quantum groups crystal bases and canonical bases quantum cohomology and K theory geometric representation theory categorification higher dimensional Kac Moody theory integrable systems guiver varieties representations of real and adic groups and quantum gauge theories The papers in this volume present representation theory connections to numerous other subjects as well as some of the most recent advances in representation theory including those which occurred thanks to the application of techniques in other areas of mathematics and of ideas of guantum field theory and string theory **Lie Groups Beyond an Introduction** Anthony W. Knapp, 2002-08-21 This book takes the reader from the end of introductory Lie group theory to the threshold of infinite dimensional group representations Merging algebra and analysis throughout the author uses Lie theoretic methods to develop a beautiful theory having wide applications in mathematics and physics The book initially shares insights that make use of actual matrices it later relies on such structural features as properties of root systems **Infinite Groups:** Geometric, Combinatorial and Dynamical Aspects Laurent Bartholdi, Tullio Ceccherini-Silberstein, Tatiana Smirnova-Nagnibeda, Andrzej Zuk, 2005-12-09 This book offers a panorama of recent advances in the theory of infinite groups It contains survey papers contributed by leading specialists in group theory and other areas of mathematics Topics include amenable groups Kaehler groups automorphism groups of rooted trees rigidity C algebras random walks on groups pro p groups Burnside groups parafree groups and Fuchsian groups The accent is put on strong connections between group theory and other areas of mathematics 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

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