

# Representations Modulaires Des Groupes Reductifs P

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## BERG ARNAV

*Geodesic Flows* World Scientific

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.

**Cardinal Invariants On Boolean Algebras** Springer Nature Taking up the works of Harish-Chandra, Langlands, Borel, Casselman, Bernstein and Zelevinsky, among others, on the complex representation theory of a  $p$ -adic reductive group  $G$ , the author explores the representations of  $G$  over an algebraic closure  $\overline{\mathbb{F}_l}$  of a finite field  $\mathbb{F}_l$  with  $l \neq p$  elements, which are called 'modular representations'. The main feature of the book is to develop the theory of types over  $\overline{\mathbb{F}_l}$ , and to use this theory to prove fundamental results in the theory of modular representations. "The present book is of evident importance to everyone interested in the representation theory of  $p$ -adic groups....The monograph starts on an elementary level laying proper foundations for the things to come and then proceeds

directly to results of recent research." —Zentralblatt Bifurcations of Planar Vector Fields and Hilbert's Sixteenth Problem Springer Science & Business Media

This is the second volume of the proceedings of the second European Congress of Mathematics. Volume I presents the speeches delivered at the Congress, the list of lectures, and short summaries of the achievements of the prize winners. Together with volume II it contains a collection of contributions by the invited lecturers. Finally, volume II also presents reports on some of the Round Table discussions. This two-volume set thus gives an overview of the state of the art in many fields of mathematics and is therefore of interest to every professional mathematician. Contributors: Vol. I: N. Alon, L. Ambrosio, K. Astala, R. Benedetti, Ch. Bessenrodt, F. Bethuel, P. Bjørstad, E. Bolthausen, J. Bricmont, A. Kupiainen, D. Burago, L. Caporaso, U. Dierkes, I. Dynnikov, L.H. Eliasson, W.T. Gowers, H. Hedenmalm, A. Huber, J. Kaczorowski, J. Kollár, D.O. Kramkov, A.N. Shiryayev, C. Lescop, R. März. Vol. II: J. Matousek, D. McDuff, A.S. Merkurjev, V. Milman, St. Müller, T. Nowicki, E. Olivieri, E. Scoppola, V.P. Platonov, J. Pöschel, L. Polterovich, L. Pyber, N. Simányi, J.P. Solovej, A. Stipsicz, G. Tardos, J.-P. Tignol, A.P. Veselov, E. Zuazua.

Six Lectures on Commutative Algebra Birkhäuser

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.

**Generalized Etale Cohomology Theories** Birkhäuser

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.

Algorithms in Algebraic Geometry and Applications Springer Science & Business Media

The first edition of this book has been out of print for some time and I have decided to follow the publisher's kind suggestion to prepare a new edition. Many examples with explicit inversion formulas and range theorems have been added, and the group-theoretic viewpoint emphasized. For example, the integral

geometric viewpoint of the Poisson integral for the disk leads to interesting analogies with the X-ray transform in Euclidean 3-space. To preserve the introductory flavor of the book the short and self-contained Chapter Von Schwartz' distributions has been added. Here §5 provides proofs of the needed results about the Riesz potentials while §§3-4 develop the tools from Fourier analysis following closely the account in Hormander's books [1963] and [1983]. There is some overlap with my books [1984] and [1994b] which however rely heavily on Lie group theory. The present book is much more elementary. I am indebted to Sine Jensen for a critical reading of parts of the manuscript and to Hilgert and Schlichtkrull for concrete contributions mentioned at specific places in the text. Finally I thank Jan Wetzel and Bonnie Friedman for their patient and skillful preparation of the manuscript.

Advances in Geometry Springer Science & Business Media  
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 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.

Geometry and Representation Theory of Real and p-adic groups American Mathematical Soc.

This book is an outgrowth of the activities of the Center for Geometry and Mathematical Physics (CGMP) at Penn State from 1996 to 1998. The Center was created in the Mathematics Department at Penn State in the fall of 1996 for the purpose of promoting and supporting the activities of researchers and students in and around geometry and physics at the university. The CGMP brings many visitors to Penn State and has ties with other research groups; it organizes weekly seminars as well as annual workshops. The book contains 17 contributed articles on current research topics in a variety of fields: symplectic geometry, quantization, quantum groups, algebraic geometry, algebraic groups and invariant theory, and characteristic classes. Most of the 20 authors have talked at Penn State about their research. Their articles present new results or discuss interesting perspectives on recent work. All the articles have been refereed in the regular fashion of excellent scientific journals. Symplectic geometry, quantization and quantum groups is one main theme of the book. Several authors study deformation quantization. Ashtikhech generalizes Karabegov's deformation quantization of Kahler manifolds to symplectic manifolds admitting two transverse polarizations, and studies the moment map in the case of semisimple coadjoint orbits. Bielavsky constructs an explicit star-product on holonomy reducible symmetric coadjoint orbits of a simple Lie group, and he shows how to construct a star-representation which has interesting holomorphic properties.

**Geometric Analysis and Applications to Quantum Field Theory** Birkhäuser

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.

**Representations of Reductive p-adic Groups** Springer Science & Business Media

This book presents the original proof of Gromov's compactness theorem for pseudo-holomorphic curves in detail. Local properties of pseudo-holomorphic curves are investigated and proved from a geometric viewpoint. Properties of particular interest are isoperimetric inequalities, a monotonicity formula, gradient bounds and the removal of singularities.

**Two-Dimensional Conformal Geometry and Vertex Operator Algebras** Birkhäuser

The concept of symmetric space is of central importance in many branches of mathematics. Compactifications of these spaces have been studied from the points of view of representation theory, geometry, and random walks. This work is devoted to the study of the interrelationships among these various compactifications and, in particular, focuses on the Martin compactifications. It is the first exposition to treat compactifications of symmetric spaces systematically and to uniformize the various points of view. The work is largely self-contained, with comprehensive references to the literature. It is an excellent resource for both researchers and graduate students.

**Harmonic Analysis on the Heisenberg Group** Cambridge University Press

This is the first volume of the proceedings of the third European Congress of Mathematics. Volume I presents the speeches delivered at the Congress, the list of lectures, and short summaries of the achievements of the prize winners as well as papers by plenary and parallel speakers. The second volume collects articles by prize winners and speakers of the mini-symposia. This two-volume set thus gives an overview of the state of the art in many fields of mathematics and is therefore of interest to every professional mathematician. Contributors: R. Ahlswede, V. Bach, V. Baladi, J. Bruna, N. Burq, X. Cabré, P.J. Cameron, Z. Chatzidakis, C. Ciliberto, G. Dal Maso, J. Denef, R. Dijkgraaf, B. Fantechi, H. Föllmer, A.B. Goncharov, A. Grigor'yan, M. Harris, R. Iturriaga, K. Johansson, K. Khanin, P. Koskela, H.W.

Lenstra, Jr., F. Loeser, Y.I. Manin, N.S. Manton, Y. Meyer, I. Moerdijk, E.M. Opdam, T. Peternell, B.M.A.G. Piette, A. Reznikov, H. Schlichtkrull, B. Schmidt, K. Schmidt, C. Simó, B. Tóth, E. van den Ban, M.-F. Vignéras, O. Viro.  
*Representations of Reductive Groups* Springer Science & Business Media

"This self-contained monograph will be of interest to graduate students and researchers of dynamical systems and differential geometry. Numerous exercises and examples as well as a comprehensive index and bibliography make this work an excellent self-study resource or text for a one-semester course or seminar."--BOOK JACKET.

*Interactions of Quantum Affine Algebras with Cluster Algebras, Current Algebras and Categorification* Springer Science & Business Media

In the fall of 1992 I 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 resulted 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.

*Elements of the Representation Theory of the Jacobi Group* American Mathematical Soc.

Finite reductive groups and their representations lie at the heart of group theory. This volume treats linear representations of finite

reductive groups and their modular aspects together with Hecke algebras, complex reflection groups, quantum groups, arithmetic groups, Lie groups, symmetric groups and general finite groups.

**Compactifications of Symmetric Spaces** American Mathematical Soc.

This volume contains the proceedings of the Conference on Representation Theory and Algebraic Geometry, held in honor of Joseph Bernstein, from June 11–16, 2017, at the Weizmann Institute of Science and The Hebrew University of Jerusalem. The topics reflect the decisive and diverse impact of Bernstein on representation theory in its broadest scope. The themes include representations of  $p$ -adic groups and Hecke algebras in all characteristics, representations of real groups and supergroups, theta correspondence, and automorphic forms.

*Singularities* Springer Science & Business Media

Award-winning monograph of the Ferran Sunyer i Balaguer Prize 1997. This book is a self-contained exposition of the spectral theory of Toeplitz operators with piecewise continuous symbols and singular integral operators with piecewise continuous coefficients. It includes an introduction to Carleson curves, Muckenhoupt weights, weighted norm inequalities, local principles, Wiener-Hopf factorization, and Banach algebras generated by idempotents. Some basic phenomena in the field and the techniques for treating them came to be understood only in recent years and are comprehensively presented here for the first time. The material has been polished in an effort to make advanced topics accessible to a broad readership. The book is addressed to a wide audience of students and mathematicians interested in real and complex analysis, functional analysis and operator theory.

*Sub-Riemannian Geometry* Springer

A pro- $p$  group is the inverse limit of some system of finite  $p$ -groups, that is, of groups of prime-power order where the prime - conventionally denoted  $p$  - is fixed. Thus from one point of view, to study a pro- $p$  group is the same as studying an infinite family of finite groups; but a pro- $p$  group is also a compact topological group, and the compactness works its usual magic to bring 'infinite' problems down to manageable proportions. The  $p$ -adic integers appeared about a century ago, but the systematic study of pro- $p$  groups in general is a fairly recent development.

Although much has been discovered, many avenues remain to be

explored; the purpose of this book is to present a coherent account of the considerable achievements of the last several years, and to point the way forward. Thus our aim is both to stimulate research and to provide the comprehensive background on which that research must be based. The chapters cover a wide range. In order to ensure the most authoritative account, we have arranged for each chapter to be written by a leading contributor (or contributors) to the topic in question. Pro- $p$  groups appear in several different, though sometimes overlapping, contexts.

*Perfectoid Spaces* Springer Science & Business Media

A generalized étale cohomology theory is a theory which is represented by a presheaf of spectra on an étale site for an algebraic variety, in analogy with the way an ordinary spectrum represents a cohomology theory for spaces. Examples include étale cohomology and étale  $K$ -theory. This book gives new and complete proofs of both Thomason's descent theorem for Bott periodic  $K$ -theory and the Nisnevich descent theorem. In doing so, it exposes most of the major ideas of the homotopy theory of presheaves of spectra, and generalized étale homology theories in particular. The treatment includes, for the purpose of adequately dealing with cup product structures, a development of stable homotopy theory for  $n$ -fold spectra, which is then promoted to the level of presheaves of  $n$ -fold spectra. This book should be of interest to all researchers working in fields related to algebraic  $K$ -theory. The techniques presented here are essentially combinatorial, and hence algebraic. An extensive background in traditional stable homotopy theory is not assumed.

**Representations modulaires des groupes reductifs  $p$ -adiques. Représentations cuspidales de  $GL(n)$**  Cambridge University Press

This volume is an outgrowth of the program Modular Representation Theory of Finite and  $p$ -Adic Groups held at the Institute for Mathematical Sciences at National University of Singapore during the period of 1–26 April 2013. It contains research works in the areas of modular representation theory of  $p$ -adic groups and finite groups and their related algebras. The aim of this volume is to provide a bridge — where interactions are rare between researchers from these two areas — by highlighting the latest developments, suggesting potential new research problems, and promoting new collaborations. It is perhaps one of the few volumes, if not only, which treats such a juxtaposition of

diverse topics, emphasizing their common core at the heart of Lie theory. Contents: Modular Representations of Finite Reductive Groups (Marc Cabanes)  $l$ -Modular Representations of  $p$ -Adic Groups ( $l \neq p$ ) (Vincent Sécherre)  $p$ -Modular Representations of  $p$ -Adic Groups (Florian Herzig) Representation Theory and Cohomology of Khovanov–Lauda–Rouquier Algebras (Alexander S Kleshchev) Cyclotomic Quiver Hecke Algebras of Type A (Andrew

Mathas) Readership: Graduate students and professional mathematicians interested in modular representation theory. Key Features: Contains a survey of modular representation theory of finite groups of Lie type, with a description of recent progress and outstanding conjectures Covers the modular representation theory of  $p$ -adic groups in both defining and non-defining characteristic which is being pursued in the modular Langlands program Introduces the increasingly popular representation theory

of Khovanov–Lauda–Rouquier algebras and the graded representation theory of cyclotomic Hecke algebras Suitable for graduate students as well as mathematical researchers who desire to learn about representation theory in these areas Keywords: Modular Representation Theory; Reductive Groups; Modular Langlands Program; Khovanov–Lauda–Rouquier Algebras; Cyclotomic Hecke Algebras