# Infinite-Dimensional Groups and Their Representations

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**Summary.** This article provides an introduction to the representation theory of Banach–Lie groups of operators on Hilbert spaces, where our main focus lies on highest weight representations and their geometric realization as spaces of holomorphic sections of a complex line bundle. After discussing the finite-dimensional case in Section I, we describe the algebraic side of the theory in Sections II and III. Then we turn in Sections IV and V to Banach–Lie groups and holomorphic representations of complex classical groups. The geometry of the coadjoint action is discussed in Section VI, and in the concluding Section VII all threads lead to a full discussion of the theory for the group $U_2(H)$ of unitary operators $u$ on a Hilbert space $H$ for which $u - 1$ is Hilbert–Schmidt.

## Introduction

As in finite dimensions, Lie theory is an exciting combination of algebraic and analytic methods. In the finite-dimensional situation one studies a connected Lie group $G$ by the exponential function $\exp\colon \mathfrak{g} \to G$ which is a local diffeomorphism. Therefore the Lie algebra structure of $\mathfrak{g}$ carries essentially all the local information on $G$. This means that all groups with the same Lie algebra $\mathfrak{g}$ are quotients of an essentially unique simply connected group $\tilde{G}$ modulo discrete central subgroups. Viewing $\mathfrak{g}$ as a "linearization" of $G$, the heart of the Lie-theoretic methods is a dictionary translating analytic and global properties of $G$ into algebraic properties of its Lie algebra $\mathfrak{g}$, which are then studied by algebraic methods.

This picture is different for infinite-dimensional groups, and how bad it becomes depends on the setting one is working in. The central objects of this article will be groups of operators on Hilbert spaces. These groups will always have a natural topology for which they are Banach–Lie groups, i.e., manifolds modeled on a Banach space endowed with a smooth group structure (multiplication and inversion). In this setting, one still has an exponential function $\exp\colon \mathfrak{g} \to G$ which is a local diffeomorphism, hence a good translation mechanism from $G$ to $\mathfrak{g}$ and back. A new feature is that the Lie algebra $\mathfrak{g}$ now is a Banach space with a continuous Lie bracket, a Banach–Lie algebra, so that we need functional analytic as well as algebraic concepts to study the Lie algebra and the group.

# Representations Of Infinite Dimensional Groups

**Alexander V. Kosyak**

**Representations Of Infinite Dimensional Groups:**

*Representations of Infinite-dimensional Groups* Rais Salmanovich Ismagilov,1996-01-01 This book is devoted to representations of two classes of infinite dimensional groups current groups and diffeomorphism groups The author presents a complete treatment of the subject including general methods for constructing irreducible representations of infinite dimensional groups and general results about such representations He also exhibits deep relations between representations of infinite dimensional groups and the theory of Fock spaces the theory of point random processes and other branches of mathematics     *Infinite Dimensional Groups and Algebras in Quantum Physics* Johnny T. Ottesen,1995-04-18 The idea of writing this book appeared when I was working on some problems related to representations of physically relevant infinite mensional groups of operators on physically relevant Hilbert spaces The considerations were local reducing the subject to dealing with representations of infinite dimensional Lie algebras associated with the associated groups There is a large number of specialized articles and books on parts of this subject but to our suprise only a few represent the point of view given in this book Moreover none of the written material was self contained At present the subject has not reached its final form and active research is still being undertaken I present this subject of growing importance in a unified manner and by a fairly simple approach I present a route by which students can absorb and understand the subject only assuming that the reader is familliar with functional analysis especially bounded and unbounded operators on Hilbert spaces Moreover I assume a little basic knowledge of algebras Lie algebras Lie groups and manifolds at least the definitions The contents are presented in detail in the introduction in Chap The manuscript of this book has been succesfully used by some advanced graduate students at Aarhus University Denmark in their A exame I thank them for comments     **Induced Representations of Infinite-dimensional Groups, I** Alexander V. Kosyak,2013     **Infinite-dimensional Representations of 2-groups** ,2012 A 2 group is a category equipped with a multiplication satisfying laws like those of a group Just as groups have representations on vector spaces 2 groups have representations on 2 vector spaces which are categories analogous to vector spaces Unfortunately Lie 2 groups typically have few representations on the finite dimensional 2 vector spaces introduced by Kapranov and Voevodsky For this reason Crane Sheppeard and Yetter introduced certain infinite dimensional 2 vector spaces called measurable categories since they are closely related to measurable fields of Hilbert spaces and used these to study infinite dimensional representations of certain Lie 2 groups Here we continue this work We begin with a detailed study of measurable categories Then we give a geometrical description of the measurable representations intertwiners and 2 intertwiners for any skeletal measurable 2 group We study tensor products and direct sums for representations and various concepts of subrepresentation We describe direct sums of intertwiners and sub intertwiners features not seen in ordinary group representation theory We study irreducible and indecomposable representations and intertwiners We also study irretractable representations another feature not seen in ordinary group

representation theory Finally we argue that measurable categories equipped with some extra structure deserve to be considered separable 2 Hilbert spaces and compare this idea to a tentative definition of 2 Hilbert spaces as representation categories of commutative von Neumann algebras      *Infinite Dimensional Groups and Their Representations* Karl-Hermann Neeb,2000      **Categories of Symmetries and Infinite-dimensional Groups** Yu. A. Neretin,1996 For mathematicians working in group theory the study of the many infinite dimensional groups has been carried out in an individual and non coherent way For the first time these apparently disparate groups have been placed together in order to construct the big picture This book successfully gives an account of this and shows how such seemingly dissimilar types such as the various groups of operators on Hilbert spaces or current groups are shown to belong to a bigger entitity This is a ground breaking text will be important reading for advanced undergraduate and graduate mathematicians      *Regular, Quasi-regular and Induced Representations of Infinite-dimensional Groups* Alexander V. Kosyak,2018 The aim of the book is a systematic development by example of noncommutative harmonic analysis on infinite dimensional non locally compact matrix groups We generalize the notion of regular quasi regular and induced representations for arbitrary infinite dimensional groups The central idea to verify the irreducibility is the Ismagilov conjecture We also extend the Kirillov orbit method for the group of upper triangular matrices of infinite order publisher      Infinite Dimensional Groups with Applications Victor Kac,1985-10-14 This volume records most of the talks given at the Conference on Infinite dimensional Groups held at the Mathematical Sciences Research Institute at Berkeley California May 10 May 15 1984 as a part of the special program on Kac Moody Lie algebras The purpose of the conference was to review recent developments of the theory of infinite dimensional groups and its applications The present collection concentrates on three very active interrelated directions of the field general Kac Moody groups gauge groups especially loop groups and diffeomorphism groups I would like to express my thanks to the MSRI for sponsoring the meeting to Ms Faye Yeager for excellent typing to the authors for their manuscripts and to Springer Verlag for publishing this volume V Kac INFINITE DIMENSIONAL GROUPS WITH APPLICATIONS CONTENTS The Lie Group Structure of M Adams T Ratiu 1 Diffeomorphism Groups and R Schmid Invertible Fourier Integral Operators with Applications On Landau Lifshitz Equation and E Date 71 Infinite Dimensional Groups Flat Manifolds and Infinite D S Freed 83 Dimensional Kahler Geometry Positive Energy Representations R Goodman 125 of the Group of Diffeomorphisms of the Circle Instantons and Harmonic Maps M A Guest 137 A Coxeter Group Approach to Z Haddad 157 Schubert Varieties Constructing Groups Associated to V G Kac 167 Infinite Dimensional Lie Algebras I Kaplansky 217 Harish Chandra Modules Over the Virasoro Algebra L J Santharoubane 233 Rational Homotopy Theory of Flag S      **Representation of Lie Groups and Related Topics** Anatoliĭ Moiseevich Vershik,Dmitriĭ Petrovich Zhelobenko,1990 Eight papers provide mature readers with careful review of progress through about 1983 toward the creation of a theory of the representations of infinite dimensional Lie groups and algebras and of some related topics Recent developments in physics have provided major

impetus for the development of such a theory and the volume will be of special interest to mathematical physicists quantum field theorists Translated from the Russian edition of unstated date and beautifully produced which at the price it should be Book club price 118 NW Annotation copyrighted by Book News Inc Portland OR *Infinite Dimensional Groups and Algebras in Quantum Physics* Johnny T. Ottesen,2008-09-11 The idea of writing this book appeared when I was working on some problems related to representations of physically relevant infinite mensional groups of operators on physically relevant Hilbert spaces The considerations were local reducing the subject to dealing with representations of infinite dimensional Lie algebras associated with the associated groups There is a large number of specialized articles and books on parts of this subject but to our suprise only a few represent the point of view given in this book Moreover none of the written material was self contained At present the subject has not reached its final form and active research is still being undertaken I present this subject of growing importance in a unified manner and by a fairly simple approach I present a route by which students can absorb and understand the subject only assuming that the reader is familliar with functional analysis especially bounded and unbounded operators on Hilbert spaces Moreover I assume a little basic knowledge of algebras Lie algebras Lie groups and manifolds at least the definitions The contents are presented in detail in the introduction in Chap The manuscript of this book has been succesfully used by some advanced graduate students at Aarhus University Denmark in their A exame I thank them for comments *Representation Theory and Noncommutative Harmonic Analysis I* A.A. Kirillov,2013-03-09 Part I of this book is a short review of the classical part of representation theory The main chapters of representation theory are discussed representations of finite and compact groups finite and infinite dimensional representations of Lie groups It is a typical feature of this survey that the structure of the theory is carefully exposed the reader can easily see the essence of the theory without being overwhelmed by details The final chapter is devoted to the method of orbits for different types of groups Part II deals with representation of Virasoro and Kac Moody algebra The second part of the book deals with representations of Virasoro and Kac Moody algebra The wealth of recent results on representations of infinite dimensional groups is presented *Regular, Quasi-regular and Induced Representations of Infinite-dimensional Groups* Alexander V. Kosyak,2018 *Developments and Trends in Infinite-Dimensional Lie Theory* Karl-Hermann Neeb,Arturo Pianzola,2010-10-17 This collection of invited expository articles focuses on recent developments and trends in infinite dimensional Lie theory which has become one of the core areas of modern mathematics The book is divided into three parts infinite dimensional Lie super algebras geometry of infinite dimensional Lie transformation groups and representation theory of infinite dimensional Lie groups Contributors B Allison D Belti W Bertram J Faulkner Ph Gille H Gl ckner K H Neeb E Neher I Penkov A Pianzola D Pickrell T S Ratiu N R Scheithauer C Schweigert V Serganova K Styrkas K Waldorf and J A Wolf **Infinite Dimensional Groups with Applications** Victor Kac,1985-10-14 **Infinite-dimensional Group Representations** George Whitelaw Mackey,American Mathematical Society,1961 **Infinite-Dimensional Lie Algebras** Victor G. Kac,1990 The third

substantially revised edition of a monograph concerned with Kac Moody algebras a particular class of infinite dimensional Lie albegras and their representations based on courses given over a number of years at MIT and in Paris <u>Infinite Dimensional Lie Algebras And Groups</u> Victor G Kac,1989-07-01 Contents Integrable Representation of Kac Moody Algebras Results and Open Problems V Chari A Pressley Existence of Certain Components in the Tensor Product of Two Integrable Highest Weight Modules for Kac Moody Algebras SKumar Frobenius Action on the B Cohomology O Mathieu Certain Rank Two Subsystems of Kac Moody Root Systems J Morita Lie Groups Associated to Kac Moody Lie Algebras An Analytic Approach E Rodriguez Carrington Almost Split K Forms of Kac Moody Algebras G Rousseau Global Representations of the Diffeomorphism Groups of the Circle F Bien Path Space Realization of the Basic Representation of An 1 E Date et al Boson Fermion Correspondence Over C De Concini et al Classification of Modular Invariant Representations of Affine Algebras V G Kac M Wakimoto Standard Monomial Theory for SL2 V Lakshmibai C S Seshadri Some Results on Modular Invariant Representations S Lu Current Algebras in 3 1 Space Time Dimensions J Mickelson Standard Representations of An 1 M Primc Representations of the Algebra Uq sI 2 q Orthogonal Polynomials and Invariants of Links A N Kirillov N Yu Reshetikhin Infinite Super Grassmannians and Super Pl cker Equations M J Bergvelt Drinfeld Sokolov Hierarchies and t Functions H J Imbens Super Boson Fermion Correspondence of Type B V G Kac J W van de Leur Prym Varieties and Soliton Equations T Shiota Polynomial Solutions of the BKP Hierarchy and Projective Representations of Symmetric Groups Y You Toward Generalized Macdonald s Identities D Bernard Conformal Theories with Non Linearly Extended Virasoro Symmetries and Lie Algebra Classification A Bilal J LGervais Extended Conformal Algebras from Kac Moody Algebras P Bouwknegt Meromorphic Conformal Field Theory P Goddard Local Extensions of the U 1 Current Algebra and Their Positive Energy Representations R R Paunov I T Todorov Conformal Field Theory on Moduli Family of Stable Curves with Gauge Symmetries A Tsuchiya Y Yamada Readership Mathematicians and mathematical physicists **Renormalization, Singular Currents and Representations of Infinite Dimensional Groups on Quantized Fields** Jan Pedersen,1991 <u>Quantum Groups</u> Petr P. Kulish,2007-02-08 The theory of Quantum Groups is a rapidly developing area with numerous applications in mathematics and theoretical physics e g in link and knot invariants in topology q special functions conformal field theory quantum integrable models The aim of the Euler Institute s workshops was to review and compile the progress achieved in the different subfields Near 100 participants came from 14 countries More than 20 contributions written up for this book contain new unpublished material and half of them include a survey of recent results in the field deformation theory graded differential algebras contraction technique knot invariants q special functions FROM THE CONTENTS V G Drinfeld On Some Unsolved Problems in Quantum Group Theory M Gerstenhaber A Giaquinto S D Schack Quantum Symmetry L I Korogodsky L L Vaksman Quantum G Spaces and Heisenberg Algebra J Stasheff Differential Graded Lie Algebras Quasi Hopf Algebras and Higher Homotopy Algebras A Yu Alekseev L D Faddeev M A Semenov Tian Shansky Hidden Quantum Groups inside Kac

Moody Algebras J L Gervais Quantum Group Symmetry of 2D Gravity T Kohno Invariants of 3 Manifolds Based on Conformal Field Theory and Heegaard Splitting O Viro Moves of Triangulations of a PL Manifold    Encyclopaedia of Mathematics M. Hazewinkel,2013-11-11

The Top Books of the Year Representations Of Infinite Dimensional Groups The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the engaging narratives that have charmed audiences this year. The Must-Read : Colleen Hoovers "It Ends with Us" This poignant tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and gripping novel that will keep you speculating until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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