
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 $\exp: \mathfrak{g} \rightarrow G$ 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 $\exp: \mathfrak{g} \rightarrow G$ 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

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Table of Contents Representations Of Infinite Dimensional Groups

1. Understanding the eBook Representations Of Infinite Dimensional Groups
 - The Rise of Digital Reading Representations Of Infinite Dimensional Groups
 - Advantages of eBooks Over Traditional Books
2. Identifying Representations Of Infinite Dimensional Groups
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Representations Of Infinite Dimensional Groups
 - User-Friendly Interface
4. Exploring eBook Recommendations from Representations Of Infinite Dimensional Groups
 - Personalized Recommendations

- Representations Of Infinite Dimensional Groups User Reviews and Ratings
- Representations Of Infinite Dimensional Groups and Bestseller Lists
- 5. Accessing Representations Of Infinite Dimensional Groups Free and Paid eBooks
 - Representations Of Infinite Dimensional Groups Public Domain eBooks
 - Representations Of Infinite Dimensional Groups eBook Subscription Services
 - Representations Of Infinite Dimensional Groups Budget-Friendly Options
- 6. Navigating Representations Of Infinite Dimensional Groups eBook Formats
 - ePub, PDF, MOBI, and More
 - Representations Of Infinite Dimensional Groups Compatibility with Devices
 - Representations Of Infinite Dimensional Groups Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Representations Of Infinite Dimensional Groups
 - Highlighting and Note-Taking Representations Of Infinite Dimensional Groups
 - Interactive Elements Representations Of Infinite Dimensional Groups
- 8. Staying Engaged with Representations Of Infinite Dimensional Groups
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Representations Of Infinite Dimensional Groups
- 9. Balancing eBooks and Physical Books Representations Of Infinite Dimensional Groups
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Representations Of Infinite Dimensional Groups
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Representations Of Infinite Dimensional Groups
 - Setting Reading Goals Representations Of Infinite Dimensional Groups
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Representations Of Infinite Dimensional Groups
 - Fact-Checking eBook Content of Representations Of Infinite Dimensional Groups

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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