

Chapter 6

Groups and Representations in Quantum Mechanics

The universe is an enormous direct product of representations of symmetry groups.

—Steven Weinberg¹

This chapter is devoted to applying the mathematical theory of groups and representations which we have developed in the preceding chapters to the quantum mechanical description of physical systems. The power of applying group theory to quantum mechanics is that it provides a framework for making *exact* statements about a physical system with a knowledge only of the symmetry operations which leave its Hamiltonian invariant, the so-called “group of the Hamiltonian.” Moreover, when we apply the machinery of groups to quantum mechanics, we find that representations—and irreducible representations in particular—arise quite naturally, as do related concepts such as the importance of unitarity of representations and the connection between the symmetry of a physical system and the degeneracy of its eigenstates. We will follow the general sequence of the discussion in Sections 1.2 and 1.3.

¹Steven Weinberg, Sheldon Glashow, and Abdus Salam were awarded the 1979 Nobel Prize in Physics for their incorporation of the weak and electromagnetic interactions into a single theory.

Chapter 6 Groups And Representations In Quantum Mechanics

Palle Jorgensen, Feng Tian



Chapter 6 Groups And Representations In Quantum Mechanics:

Group Theory in Quantum Mechanics Volker Heine, 2014-05-15 Group Theory in Quantum Mechanics An Introduction to its Present Usage introduces the reader to the three main uses of group theory in quantum mechanics to label energy levels and the corresponding eigenstates to discuss qualitatively the splitting of energy levels as one starts from an approximate Hamiltonian and adds correction terms and to aid in the evaluation of matrix elements of all kinds and in particular to provide general selection rules for the non zero ones The theme is to show how all this is achieved by considering the symmetry properties of the Hamiltonian and the way in which these symmetries are reflected in the wave functions This book is comprised of eight chapters and begins with an overview of the necessary mathematical concepts including representations and vector spaces and their relevance to quantum mechanics The uses of symmetry properties and mathematical expression of symmetry operations are also outlined along with symmetry transformations of the Hamiltonian The next chapter describes the three uses of group theory with particular reference to the theory of atomic energy levels and transitions The following chapters deal with the theory of free atoms and ions representations of finite groups the electronic structure and vibrations of molecules solid state physics and relativistic quantum mechanics Nuclear physics is also discussed with emphasis on the isotopic spin formalism nuclear forces and the reactions that arise when the nuclei take part in time dependent processes This monograph will be of interest to physicists and mathematicians

Groups and Symmetries Yvette Kosmann-Schwarzbach, 2022-07-16 Combines material from many areas of mathematics including algebra geometry and analysis so students see connections between these areas Applies material to physics so students appreciate the applications of abstract mathematics Assumes only linear algebra and calculus making an advanced subject accessible to undergraduates Includes 142 exercises many with hints or complete solutions so text may be used in the classroom or for self study

Groups, Representations and Physics H.F Jones, 2020-07-14 Illustrating the fascinating interplay between physics and mathematics Groups Representations and Physics Second Edition provides a solid foundation in the theory of groups particularly group representations For this new fully revised edition the author has enhanced the book's usefulness and widened its appeal by adding a chapter on the Cartan Dynkin treatment of Lie algebras This treatment a generalization of the method of raising and lowering operators used for the rotation group leads to a systematic classification of Lie algebras and enables one to enumerate and construct their irreducible representations Taking an approach that allows physics students to recognize the power and elegance of the abstract axiomatic method the book focuses on chapters that develop the formalism followed by chapters that deal with the physical applications It also illustrates formal mathematical definitions and proofs with numerous concrete examples

Elements of Group Theory for Physicists A. W. Joshi, 1997 The Mathematical Study Of Group Theory Was Initiated In The Early Nineteenth Century By Such Mathematicians As Gauss Cauchy Abel Hamilton Galois Cayley And Many Others However The Advantages Of Group Theory

In Physics Were Not Recognized Till 1925 When It Was Applied For Formal Study Of Theoretical Foundations Of Quantum Mechanics Atomic Structures And Spectra By To Name A Few H A Bethe E P Wigner Etc It Has Now Become Indispensable In Several Branches Of Physics And Physical Chemistry Dr Joshi Develops The Mathematics Of Group Theory And Then Goes On To Present Its Applications To Quantum Mechanics Crystallography And Solid State Physics For Proper Comprehension Of Representation Theory He Has Covered Thoroughly Such Diverse But Relevant Topics As Hilbert Spaces Function Spaces Operators And Direct Sum And Product Of Matrices He Often Proceeds From The Particular To The General So That The Beginning Student Does Not Have An Impression That Group Theory Is Merely A Branch Of Abstract Mathematics Various Concepts Have Been Explained Consistently By The Use Of The C4V Besides It Contains An Improved And More General Proof Of The Schurs First Lemma And An Interpretation Of The Orthogonality Theorem In The Language Of Vector Spaces Chapter 3 Throughout The Text The Author Gives Attention To Details And Avoids Complicated Notation This Is A Valuable Book For Senior Students And Researchers In Physics And Physical Chemistry A Thorough Understanding Of The Methodology And Results Contained In This Book Will Provide The Reader Sound Theoretical Foundations For Advanced Study Of Quantum Mechanics Solid State Physics And Atomic And Particle Physics To Help Students A Flow Chart Explaining Step By Step The Method Of Determining A Parallel Running Example Illustrating The Procedure In Full Details Have Been Included An Appendix On Mappings And Functions Has Also Been Added

Mathematical Methods for Physics Esko Keski-Vakkuri, Claus Montonen, Marco Panero, 2022-12-22 This detailed yet accessible text provides an essential introduction to the advanced mathematical methods at the core of theoretical physics The book steadily develops the key concepts required for an understanding of symmetry principles and topological structures such as group theory differentiable manifolds Riemannian geometry and Lie algebras Based on a course for senior undergraduate students of physics it is written in a clear pedagogical style and would also be valuable to students in other areas of science and engineering The material has been subject to more than twenty years of feedback from students ensuring that explanations and examples are lucid and considered and numerous worked examples and exercises reinforce key concepts and further strengthen readers understanding This text unites a wide variety of important topics that are often scattered across different books and provides a solid platform for more specialized study or research

Non-commutative Analysis Palle Jorgensen, Feng Tian, 2017-01-24 This is a book to be read and worked with For a beginning graduate student this can be a valuable experience which at some points in fact leads up to recent research For such a reader there is also historical information included and many comments aiming at an overview It is inspiring and original how old material is combined and mixed with new material There is always something unexpected included in each chapter which one is thankful to see explained in this context and not only in research papers which are more difficult to access Mathematical Reviews Clippings The book features new directions in analysis with an emphasis on Hilbert space mathematical physics and stochastic processes We interpret

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Mathematical Methods XIA Douglas Henderson, 2012-12-02 Physical Chemistry An Advanced Treatise Mathematical Methods Volume XIA is devoted to mathematical techniques of interest to chemists The purpose of this treatise is to present a comprehensive treatment of physical chemistry for advanced students and investigators in a reasonably small number of volumes An attempt has been made to include all important topics in physical chemistry together with borderline subjects which are of particular interest and importance The book begins with discussions of elementary concepts such as linear vector spaces generalized function theory complex variable theory boundary value problems approximating functions and their applications in numerical differentiation integration and the solution of differential equations and group theory These are followed by more advanced and specialized chapters that emphasize chemical applications rather than mathematical rigor This book provides the student of physical chemistry with a basic understanding of those additional mathematical techniques which are important in chemistry and should enable him to read the current literature in theoretical chemistry

Group Theoretical Foundations of Quantum Mechanics R. Mirman, 1995 Group Theoretical Foundations of Quantum Mechanics Publicationes mathematicae Kossuth Lajos Tudományegyetem. Matematikai Intézet, 2006 *Lecture notes series*, 1969 **From Physical Concept to Mathematical Structure** Lynn E. H. Trainor, Mark B. Wise, 1979 Group Theory and the Coulomb Problem M. J. Englefield, 1972 *Group Representations* Michael James John Lennon, 1971 *Lie Groups*, 1977 *Quantum Mechanics: Methods and Basic Applications* R. McWeeny, 1973 **Indian Journal of Physics and Proceedings of the Indian Association for the Cultivation of Science**, 1963 Vols 1-9 include the association's annual report for 1925-34 **Introduction to Axiomatic Quantum Field Theory** Nikolaï Nikolaevich Bogoliubov, Anatoliï Alekseevich Logunov, Ivan Todorov Todorov, 1975 This collection includes tracks with small and big bands as well as several from his famed sessions with strings Chronological sequenced from 1947's The Bird from the Mercury album THE JAZZ SCENE through My Little Suede Shoes and Loverman to his 1953 reprise of his classic Now's The Time all twelve tracks are classics from one of the greatest *Acta Physica Hungarica*, 1977 *Vibrational States* S. Califano, 1976 Linear Algebra and Group Representations: Linear algebra and introduction to group representations Ronald Shaw, 1982

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