

DIE GRUNDEHREN DER MATHEMATISCHEN
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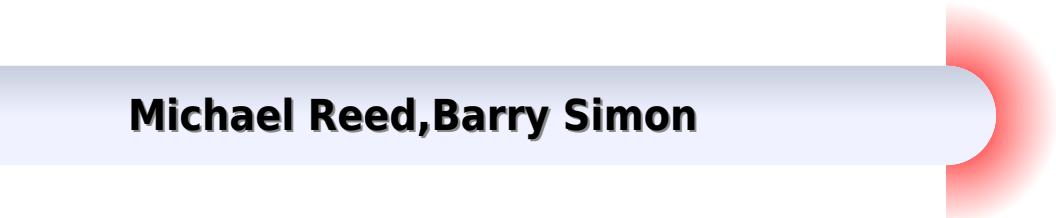
VOLUME 129

**The Mathematical Apparatus
for Quantum-Theories**

Ottavio Morini Nikodym

Mathematical Apparatus For Quantum Theor

Michael Reed, Barry Simon



Mathematical Apparatus For Quantum Theor:

The Mathematical Apparatus for Quantum-Theories Otton Martin Nikodym, 2012-12-06 The mathematical apparatus for quantum-theories Otton Martin Nikodým, 1966 **Quantum-Like Models for Information Retrieval and Decision-Making** Diederik Aerts, Andrei Khrennikov, Massimo Melucci, Bourama Toni, 2019-09-09 Recent years have been characterized by tremendous advances in quantum information and communication both theoretically and experimentally In addition mathematical methods of quantum information and quantum probability have begun spreading to other areas of research beyond physics One exciting new possibility involves applying these methods to information science and computer science without direct relation to the problems of creation of quantum computers The aim of this Special Volume is to encourage scientists especially the new generation master and PhD students working in computer science and related mathematical fields to explore novel possibilities based on the mathematical formalisms of quantum information and probability The contributing authors who hail from various countries combine extensive quantum methods expertise with real world experience in application of these methods to computer science The problems considered chiefly concern quantum information probability based modeling in the following areas information foraging interactive quantum information access deep convolutional neural networks decision making quantum dynamics open quantum systems and theory of contextual probability The book offers young scientists students PhD postdocs an essential introduction to applying the mathematical apparatus of quantum theory to computer science information retrieval and information processes The Physical Principles of the Quantum Theory Werner Heisenberg, 1930 **Matematicheskii apparat teorii momenta količestva dvizenija** A.P. Jucis, I.B. Levinson, V.V. Vanagas, 1960 , **Quantum Scattering Theory for Several Particle Systems** L.D. Faddeev, S.P. Merkuriev, 2013-04-18 The last decade witnessed an increasing interest of mathematicians in problems originated in mathematical physics As a result of this effort the scope of traditional mathematical physics changed considerably New problems especially those connected with quantum physics make use of new ideas and methods Together with classical and functional analysis methods from differential geometry and Lie algebras the theory of group representation and even topology and algebraic geometry became efficient tools of mathematical physics On the other hand the problems tackled in mathematical physics helped to formulate new purely mathematical theorems This important development must obviously influence the contemporary mathematical literature especially the review articles and monographs A considerable number of books and articles appeared reflecting to some extent this trend In our view however an adequate language and appropriate methodology has not been developed yet Nowadays the current literature includes either mathematical monographs occasionally using physical terms or books on theoretical physics focused on the mathematical apparatus We hold the opinion that the traditional mathematical language of lemmas and theorems is not appropriate for the contemporary writing on mathematical physics In such literature in contrast to the standard approaches

of theoretical physics the mathematical ideology must be utmost emphasized and the reference to physical ideas must be supported by appropriate mathematical statements Of special importance are the results and methods that have been developed in this way for the first time

Quantum Measurement Paul Busch, Pekka Lahti, Juha-Pekka Pellonpää, Kari Ylinen, 2016-08-23 This is a book about the Hilbert space formulation of quantum mechanics and its measurement theory It contains a synopsis of what became of the Mathematical Foundations of Quantum Mechanics since von Neumann's classic treatise with this title Fundamental non classical features of quantum mechanics indeterminacy and incompatibility of observables unavoidable measurement disturbance entanglement nonlocality are explicated and analysed using the tools of operational quantum theory The book is divided into four parts 1 Mathematics provides a systematic exposition of the Hilbert space and operator theoretic tools and relevant measure and integration theory leading to the Naimark and Stinespring dilation theorems 2 Elements develops the basic concepts of quantum mechanics and measurement theory with a focus on the notion of approximate joint measurability 3 Realisations offers in depth studies of the fundamental observables of quantum mechanics and some of their measurement implementations and 4 Foundations discusses a selection of foundational topics quantum classical contrast Bell nonlocality measurement limitations measurement problem operational axioms from a measurement theoretic perspective The book is addressed to physicists mathematicians and philosophers of physics with an interest in the mathematical and conceptual foundations of quantum physics specifically from the perspective of measurement theory

Mathematical Tools for Physicists George L. Trigg, 2006-08-21 Mathematical Tools for Physicists is a unique collection of 18 carefully reviewed articles each one written by a renowned expert working in the relevant field The result is beneficial to both advanced students as well as scientists at work the former will appreciate it as a comprehensive introduction while the latter will use it as a ready reference The contributions range from fundamental methods right up to the latest applications including Algebraic analytic geometric methods Symmetries and conservation laws Mathematical modeling Quantum computation The emphasis throughout is ensuring quick access to the information sought and each article features an abstract a detailed table of contents continuous cross referencing references to the most relevant publications in the field and suggestions for further reading both introductory as well as highly specialized In addition a comprehensive index provides easy access to the vast number of key words extending beyond the range of the headlines

Physics And Mathematical Tools: Methods And Examples Angel Alastuey, Marc Magro, Pierre Pujol, Maxime Clusel, 2015-12-30 This book presents mathematical methods and tools which are useful for physicists and engineers response functions Kramers Kronig relations Green's functions saddle point approximation The derivations emphasize the underlying physical arguments and interpretations without any loss of rigor General introductions describe the main features of the methods while connections and analogies between a priori different problems are discussed They are completed by detailed applications in many topics including electromagnetism hydrodynamics statistical physics quantum mechanics etc

Exercises are also proposed and their solutions are sketched. A self-contained reading of the book is favored by avoiding too technical derivations and by providing a short presentation of important tools in the appendices. It is addressed to undergraduate and graduate students in physics but it can also be used by teachers, researchers, and engineers. A *Mathematical Journey to Quantum Mechanics* Salvatore Capozziello, Wladimir-Georges Boskoff, 2021-09-27. This book provides an itinerary to quantum mechanics taking into account the basic mathematics to formulate it. Specifically, it features the main experiments and postulates of quantum mechanics, pointing out their mathematical prominent aspects, showing how physical concepts and mathematical tools are deeply intertwined. The material covers topics such as analytic mechanics in Newtonian, Lagrangian, and Hamiltonian formulations; theory of light as formulated in special relativity; and then why quantum mechanics is necessary to explain experiments like the double-slit atomic spectra and photoelectric effect. The Schrödinger equation and its solutions are developed in detail. It is pointed out that starting from the concept of the harmonic oscillator, it is possible to develop advanced quantum mechanics. Furthermore, the mathematics behind the Heisenberg uncertainty principle is constructed towards advanced quantum mechanical principles. Relativistic quantum mechanics is finally considered. The book is devoted to undergraduate students from University courses of Physics, Mathematics, Chemistry, and Engineering. It consists of 50 self-contained lectures, and any statement and theorem are demonstrated in detail. It is the companion book of *A Mathematical Journey to Relativity* by the same Authors, published by Springer in 2020. "The Quantum Theory" Herbert Stanley Allen, 1928. **Lectures on the Mathematics of Quantum Mechanics I** Gianfausto Dell'Antonio, 2015-05-25. The first volume, General Theory, differs from most textbooks as it emphasizes the mathematical structure and mathematical rigor while being adapted to the teaching of the first semester of an advanced course in Quantum Mechanics; the content of the book are the lectures of courses actually delivered. It differs also from the very few texts in Quantum Mechanics that give emphasis to the mathematical aspects because this book, being written as Lecture Notes, has the structure of lectures delivered in a course: namely, introduction of the problem, outline of the relevant points, mathematical tools needed, theorems, proofs. This makes this book particularly useful for self-study and for instructors in the preparation of a second course in Quantum Mechanics after a first basic course. With some minor additions, it can be used also as a basis of a first course in Quantum Mechanics for students in mathematics curricula. The second part, Selected Topics, are lecture notes of a more advanced course aimed at giving the basic notions necessary to do research in several areas of mathematical physics connected with quantum mechanics: from solid state to singular interactions, many-body theory, semi-classical analysis, quantum statistical mechanics. The structure of this book is suitable for a second semester course in which the lectures are meant to provide, in addition to theorems and proofs, an overview of a more specific subject and hints to the direction of research. In this respect, and for the width of subjects, this second volume differs from other monographs on Quantum Mechanics. The second volume can be useful for students who want to have a basic preparation for doing research and for

instructors who may want to use it as a basis for the presentation of selected topics

Mathematical Devices for Optical Sciences Sibel Baskal, Young S. Kim, Marilyn E. Noz, 2019-06-12

Epistemology of Experimental Gravity - Scientific Rationality Nicolae Sfetcu, 2019

The evolution of gravitational tests from an epistemological perspective framed in the concept of rational reconstruction of Imre Lakatos based on his methodology of research programmes Unlike other works on the same subject the evaluated period is very extensive starting with Newton's natural philosophy and up to the quantum gravity theories of today In order to explain in a more rational way the complex evolution of the gravity concept of the last century I propose a natural extension of the methodology of the research programmes of Lakatos that I then use during the paper I believe that this approach offers a new perspective on how evolved over time the concept of gravity and the methods of testing each theory of gravity through observations and experiments I argue based on the methodology of the research programmes and the studies of scientists and philosophers that the current theories of quantum gravity are degenerative due to the lack of experimental evidence over a long period of time and of self immunization against the possibility of falsification Moreover a methodological current is being developed that assigns a secondary unimportant role to verification through observations and or experiments For this reason it will not be possible to have a complete theory of quantum gravity in its current form which to include to the limit the general relativity since physical theories have always been adjusted during their evolution based on observational or experimental tests and verified by the predictions made Also contrary to a widespread opinion and current active programs regarding the unification of all the fundamental forces of physics in a single final theory based on string theory I argue that this unification is generally unlikely and it is not possible anyway for a unification to be developed based on current theories of quantum gravity including string theory In addition I support the views of some scientists and philosophers that currently too much resources are being consumed on the idea of developing quantum gravity theories and in particular string theory to include general relativity and to unify gravity with other forces as long as science does not impose such research programs

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Structures Of Quantum Mechanics Kow Lung Chang, 2011-10-31 This marvelous book is aimed at strengthening the mathematical background and sharpening the mathematical tools of students without rigorous training before taking the quantum mechanics course The abstract construction of quantum postulates in the framework of Hilbert space and Hermitian operators are realized by q representation in the formulation to demonstrate the conventional approach to quantum theory Symmetry property is emphasized and extensively explored in this book both in continuous transformations as well as in the discrete ones The space time structure is discussed in depth and Dirac equation is formulated by symmetry consideration of Lorentz group **Fundamental Mathematical Structures of Quantum Theory** Valter

Moretti, 2019-06-20 This textbook presents in a concise and self contained way the advanced fundamental mathematical structures in quantum theory It is based on lectures prepared for a 6 months course for MSc students The reader is introduced to the beautiful interconnection between logic lattice theory general probability theory and general spectral theory including the basic theory of von Neumann algebras and of the algebraic formulation naturally arising in the study of the mathematical machinery of quantum theories Some general results concerning hidden variable interpretations of QM such as Gleason's and the Kochen Specker theorems and the related notions of realism and non contextuality are carefully discussed This is done also in relation with the famous Bell BCHSH inequality concerning local causality Written in a didactic style this book includes many examples and solved exercises The work is organized as follows Chapter 1 reviews some elementary facts and properties of quantum systems Chapter 2 and 3 present the main results of spectral analysis in complex Hilbert spaces Chapter 4 introduces the point of view of the orthomodular lattices theory Quantum theory from this perspective turns out to be the probability measure theory on the non Boolean lattice of elementary observables and Gleason's theorem characterizes all these measures Chapter 5 deals with some philosophical and interpretative aspects of quantum theory like hidden variable formulations of QM The Kochen Specker theorem and its implications are analyzed also in relation BCHSH inequality entanglement realism locality and non contextuality Chapter 6 focuses on the algebra of observables also in the presence of superselection rules introducing the notion of von Neumann algebra Chapter 7 offers the idea of groups of quantum symmetry in particular illustrated in terms of Wigner and Kadison theorems Chapter 8 deals with the elementary ideas and results of the so called algebraic formulation of quantum theories in terms of both algebras and C

algebras This book should appeal to a dual readership on one hand mathematicians that wish to acquire the tools that unlock the physical aspects of quantum theories on the other physicists eager to solidify their understanding of the mathematical scaffolding of quantum theories Methods of Modern Mathematical Physics Michael Reed, Barry Simon, 1970 Quantum Tools for Macroscopic Systems Fabio Bagarello, Francesco Gargano, Francesco Oliveri, 2023-05-24 This book describes how complex systems from a variety of fields can be modeled using quantum mechanical ideas from biology and ecology to sociology and decision making Quantum mechanics is traditionally associated with microscopic systems however quantum concepts have also been successfully applied to a wide range of macroscopic systems both within and outside physics The mathematical basis of these models is covered in detail providing a self contained and consistent approach This book provides unique insight into the dynamics of these macroscopic systems and opens new interdisciplinary research frontiers The authors present an essential resource for researchers in applied mathematics or theoretical physics who are interested in applying quantum mechanics to complex systems in the social biological or ecological sciences Describes how complex systems from a variety of fields can be modeled using quantum mechanical ideas Provides insight into the dynamics of macroscopic systems and opens new interdisciplinary research frontiers Introduces quantum tools needed for the analysis of the dynamical behavior of macroscopic systems Theoretical Knowledge Vyacheslav S. Stepin, 2005-11-13 In Theoretical Knowledge an original conception of a structure and dynamics of scientific knowledge is proposed A detailed analysis of the foundations of science performed by the author allowed him to develop new ideas and approaches to demonstrate how sociocultural factors are incorporated in the process of yielding of new theories He shows direct and inverse links between foundations of science and new theories and empirical facts evolved from those how among many potentially possible histories of science a culture selects just those directions which become a real history of science The author analyses mechanisms of the generation of scientific theories and shows that those are changed in the process of historical development of science He displays three historical types of scientific rationality classical non classical and post non classical which appears in modern science and shows features of their coexistence and interplay It is shown that along with the emerging of post non classical rationality science increases the sphere of its worldview applications Science begins to correlate not only with the basic values of technogenic civilization but also with some values and patterns of traditional cultures The investigation is based on the extensive literature on the history of natural and social sciences The reader will find in the book authentic historical reconstructions of the processes of the development of classical and quantum electrodynamics relativity and conceptions of evolution in biology

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Mathematical Apparatus For Quantum Theor Introduction

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