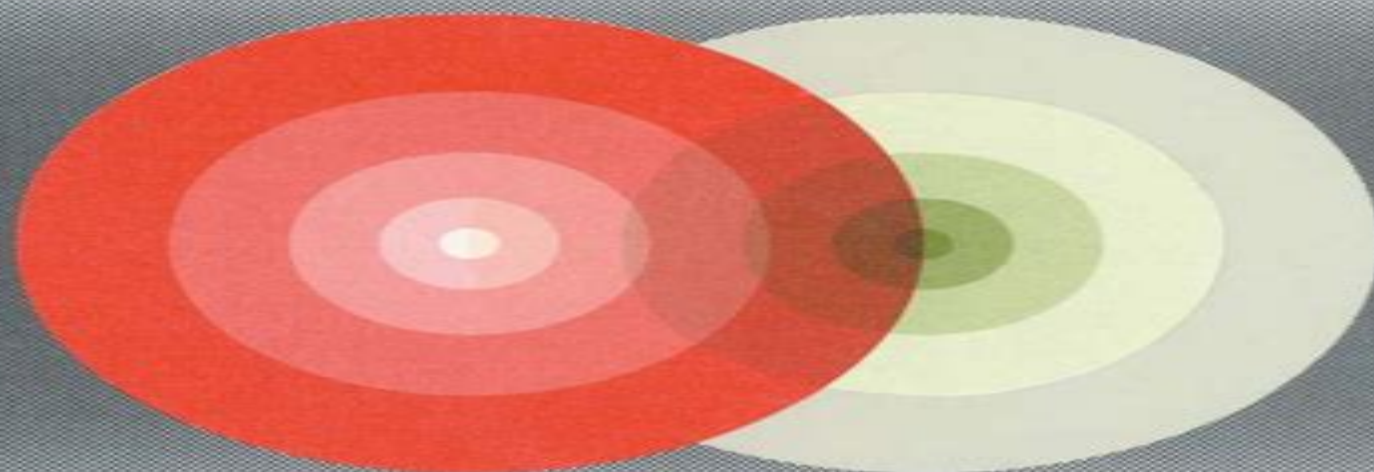


Quantum Measurements and Decoherence

Models and Phenomenology

by
Michael B. Mensky

Springer-Science+Business Media, B.V.



Fundamental Theories of Physics

Quantum Measurements And Decoherence Models And Phenomenology

J. Keller



Quantum Measurements And Decoherence Models And Phenomenology:

Quantum Measurements and Decoherence M. Mensky, 2013-04-17 Quantum measurement is a measurement which is sufficiently precise for quantum effects to be essential was always one of the most important points in quantum mechanics because it most evidently revealed the difference between quantum and classical physics Now quantum measurement is again under active investigation first of all because of the practical necessity of dealing with highly precise and complicated measurements The nature of quantum measurement has become understood much better during this new period of activity the understanding being expressed by the concept of decoherence This term means a physical process leading from a pure quantum state wave function of the system prior to the measurement to its state after the measurement which includes classical elements More concretely decoherence occurs as a result of the entanglement of the measured system with its environment and results in the loss of phase relations between components of the wave function of the measured system Decoherence is essentially nothing else than quantum measurement but considered from the point of view of its physical mechanism and resolved in time The present book is devoted to the two concepts of quantum measurement and decoherence and to their interrelation especially in the context of continuous quantum measurement Decoherence: Theoretical, Experimental, and Conceptual Problems P. Blanchard, D. Giulini, E. Joos, C. Kiefer, I.-O. Stamatescu, 2008-01-11 In this book the process of decoherence is reviewed from both the theoretical and the experimental physicist's point of view Implications of this important concept for fundamental problems of quantum theory and for chemistry and biology are also given This broad review of decoherence addresses researchers and graduate students It could also be used in seminar work

Quantum Measurements and Decoherence M. Mensky, 2014-01-15 Multiple Facets of Quantization and Supersymmetry M. A. Olshanetsky, Arkady Vainshtein, 2002 This book is dedicated to the memory of Michael Marinov the theorist who together with Felix Berezin introduced the classical description of spin by anticommuting Grassmann variables The Volume contains original papers and reviews of physicists and mathematicians written specifically for this book These articles reflect the current status and recent developments in the areas of Marinov's research interests quantum tunneling quantization of constrained systems supersymmetry and others Included personal recollections portray a human face of Michael Marinov a person of great knowledge and integrity **The Routledge Companion to Philosophy of Physics** Eleanor Knox, Alastair Wilson, 2021-09-28 The Routledge Companion to Philosophy of Physics is a comprehensive and authoritative guide to the state of the art in the philosophy of physics It comprises 54 self-contained chapters written by leading philosophers of physics at both senior and junior levels making it the most thorough and detailed volume of its type on the market nearly every major perspective in the field is represented The Companion's 54 chapters are organized into 12 parts The first seven parts cover all of the major physical theories investigated by philosophers of physics today and the last five explore key themes that unite the study of these theories I Newtonian Mechanics II Special Relativity III General

Relativity IV Non Relativistic Quantum Theory V Quantum Field Theory VI Quantum Gravity VII Statistical Mechanics and Thermodynamics VIII Explanation IX Intertheoretic Relations X Symmetries XI Metaphysics XII Cosmology The difficulty level of the chapters has been carefully pitched so as to offer both accessible summaries for those new to philosophy of physics and standard reference points for active researchers on the front lines An introductory chapter by the editors maps out the field and each part also begins with a short summary that places the individual chapters in context The volume will be indispensable to any serious student or scholar of philosophy of physics Free Will and Consciousness in the Multiverse Christian D. Schade, 2019-01-29 It is hard to interpret quantum mechanics The most surprising but also most parsimonious interpretation is the many worlds or quantum multiverse interpretation implying a permanent coexistence of parallel realities Could this perhaps be the appropriate interpretation of quantum mechanics This book collects evidence for this interpretation both from physics and from other fields and proposes a subjectivist version of it the clustered minds multiverse The author explores its implications through the lens of decision making and derives consequences for free will and consciousness For example free will can be implemented in the form of vectorial choices as introduced in the book He furthermore derives consequences for research in the social sciences especially in psychology and economics **Quantum and Stochastic Mathematical Physics** Astrid Hilbert, Elisa Mastrogio, Sonia Mazzucchi, Barbara Rüdiger, Stefania Ugolini, 2023-04-02 Sergio Albeverio gave important contributions to many fields ranging from Physics to Mathematics while creating new research areas from their interplay Some of them are presented in this Volume that grew out of the Random Transformations and Invariance in Stochastic Dynamics Workshop held in Verona in 2019 To understand the theory of thermo and fluid dynamics statistical mechanics quantum mechanics and quantum field theory Albeverio and his collaborators developed stochastic theories having strong interplays with operator theory and functional analysis His contribution to the theory of non Gaussian SPDEs the related theory of pseudo differential operators and ergodic theory had several impacts to solve problems related among other topics to thermo and fluid dynamics His scientific works in the theory of interacting particles and its extension to configuration spaces lead e g to the solution of open problems in statistical mechanics and quantum field theory Together with Raphael Hoegh Krohn he introduced the theory of infinite dimensional Dirichlet forms which nowadays is used in many different contexts and new methods in the theory of Feynman path integration He did not fear to further develop different methods in Mathematics like e g the theory of non standard analysis and p adic numbers Foundations of Quantum Mechanics, an Empiricist Approach W.M. de Muynck, 2006-04-11 Taking a new perspective provided by a generalization of the mathematical formalism encompassing positive operator valued measures this book views old and new problems of the foundations of quantum mechanics It demonstrates the crucial role of the generalized formalism in fundamental issues and practical applications Mathematical Feynman Path Integrals And Their Applications (Second Edition) Sonia Mazzucchi, 2021-11-16 Feynman path integrals are ubiquitous in quantum physics

even if a large part of the scientific community still considers them as a heuristic tool that lacks a sound mathematical definition Our book aims to refute this prejudice providing an extensive and self contained description of the mathematical theory of Feynman path integration from the earlier attempts to the latest developments as well as its applications to quantum mechanics This second edition presents a detailed discussion of the general theory of complex integration on infinite dimensional spaces providing on one hand a unified view of the various existing approaches to the mathematical construction of Feynman path integrals and on the other hand a connection with the classical theory of stochastic processes Moreover new chapters containing recent applications to several dynamical systems have been added This book bridges between the realms of stochastic analysis and the theory of Feynman path integration It is accessible to both mathematicians and physicists

Quantum Noise in Mesoscopic Physics Yuli V. Nazarov, 2012-12-06 This book is written to conclude the NATO Advanced Research Workshop Quantum Noise in Mesoscopic Physics held in Delft the Netherlands on June 2 4 2002 The workshop was co directed by M Reznikov of Israel Institute of Technology and me The members of the organizing committee were Yaroslav Blanter Delft Chirstopher Glatthi Saclay and ENS Paris and R Schoelkopf Yale The workshop was very successful and we hope that the reader will be satisfied with the scientific level of the present book Before addressing scientific issues I find it suitable to address several non scientific ones The workshop was attended by researchers from many countries Most of them perform their activities in academic institutions where one usually finds the necessary isolation from the problems and sores of the modem world However there was a large group of participants for which such isolation was far from perfect War hatred and violence rage just several miles away of their campuses and laboratories poisoning everyday life in the land of Israel

The Geometry of Hamilton and Lagrange Spaces R. Miron, Dragos Hrimiuc, Hideo Shimada, Sorin V. Sabau, 2006-04-11 The title of this book is no surprise for people working in the field of Analytical Mechanics However the geometric concepts of Lagrange space and Hamilton space are completely new The geometry of Lagrange spaces introduced and studied in 76 96 was extensively examined in the last two decades by geometers and physicists from Canada Germany Hungary Italy Japan Romania Russia and U S A Many international conferences were devoted to debate this subject proceedings and monographs were published 10 18 112 113 A large area of applicability of this geometry is suggested by the connections to Biology Mechanics and Physics and also by its general setting as a generalization of Finsler and Riemannian geometries The concept of Hamilton space introduced in 105 101 was intensively studied in 63 66 97 and it has been successful as a geometric theory of the Hamiltonian function the fundamental entity in Mechanics and Physics The classical Legendre's duality makes possible a natural connection between Lagrange and Hamilton spaces It reveals new concepts and geometrical objects of Hamilton spaces that are dual to those which are similar in Lagrange spaces Following this duality Cartan spaces introduced and studied in 98 99 are roughly speaking the Legendre duals of certain Finsler spaces 98 66 67 The above arguments make this monograph a continuation of 106 113 emphasizing the Hamilton geometry **The**

Landscape of Theoretical Physics: A Global View M. Pavsic, 2001-11-30 Today many important directions of research are being pursued more or less independently of each other These are for instance strings and mem branes induced gravity embedding of spacetime into a higher dimensional space the brane world scenario the quantum theory in curved spaces Fock Schwinger proper time formalism parametrized relativistic quantum theory quantum gravity wormholes and the problem of time machines spin and supersymmetry geometric calculus based on Clifford algebra various interpretations of quantum mechanics including the Everett interpretation and the recent important approach known as decoherence A big problem as I see it is that various people thoroughly investigate their narrow field without being aware of certain very close relations to other fields of research What we need now is not only to see the trees but also the forest In the present book I intend to do just that to carry out a first approximation to a synthesis of the related fundamental theories of physics I sincerely hope that such a book will be useful to physicists From a certain viewpoint the book could be considered as a course in the theoretical physics in which the foundations of all those relevant fundamental theories and concepts are attempted to be thoroughly reviewed Unsolved problems and paradoxes are pointed out I show that most of those approaches have a common basis in the theory of unconstrained membranes The very interesting and important concept of membrane space the tensor calculus in and functional transformations in are discussed Relativity in Rotating Frames G. Rizzi, M.L. Ruggiero, 2013-03-09 Even if the subject is a long standing one this is the first monograph on this field On the one hand this book is intended to give a rather wide review on this field both in a historical and pedagogical perspective on the other hand it aims at critically re examining and discussing the most controversial issues For instance according to some authors the celebrated Sagnac effect is a disproof of the theory of relativity applied to rotating frames according to others it is an astonishing experimental evidence of the relativistic theory In order to give the reader a deeper insight into this research field the contributing authors discuss their opinions on the main subjects in an enthralling virtual round table in this way the reader can get a direct comparison of the various viewpoints on the most controversial and interesting topics This is particularly expedient since the differences in the various approaches are often based upon subtleties that can be understood only by a direct comparison of the underlying hypotheses *Challenges to The Second Law of Thermodynamics* Vladislav Capek, Daniel P. Sheehan, 2006-03-30 The advance of scientific thought in ways resembles biological and geologic transformation long periods of gradual change punctuated by episodes of radical upheaval Twentieth century physics witnessed at least three major shifts relativity quantum mechanics and chaos theory as well many lesser ones Now so early in the 21st another shift appears imminent this one involving the second law of thermodynamics Over the last 20 years the absolute status of the second law has come under increased scrutiny more than during any other period its 180 year history Since the early 1980s roughly 50 papers representing over 20 challenges have appeared in the refereed scientific literature In July 2002 the first conference on its status was convened at the University of San Diego attended by 120 researchers from 25 countries QLSL2002 1 In 2003

the second edition of Le s and Rex s classic anthology on Maxwell demons appeared 2 further raising interest in this emerging eld In 2004 the mainstream scienti c journal Entropy published a special edition devoted to second law challenges 3 And in July 2004 an echo of QLSL2002 was held in Prague Czech Republic 4 Modern second law challenges began in the early 1980 s with the theoretical proposals of Gordon and Denur Starting in the mid 1990 s several proposals for experimentally testable challenges were advanced by Sheehan et al By the late 1990 s and early 2000 s a rapid succession of theoretical quantum mechanical challenges were being advanced by C apek et al

Relativity and the Dimensionality of the World Vesselin Petkov, 2007-10-08 All physicists would agree that one of the most fundamental problems of the 21st century physics is the dimensionality of the world In the four dimensional world of Minkowski or Minkowski spacetime the most challenging problem is the nature of the temporal dimension In Minkowski spacetime it is merely one of the four dimensions which means that it is entirely given like the other three spacial dimensions If the temporal dimension were not given in its entirety and only one constantly changing moment of it existed Minkowski spacetime would be reduced to the ordinary three dimensional space But if the physical world represented by Minkowski spacetime is indeed four dimensional with time being the fourth dimension then such a world is drastically different from its image based on our perceptions Minkowski four dimensional world is a block Universe a frozen world in which nothing happens since all moments of time are given at once which means that physical bodies are four dimensional worldtubes containing the whole histories in time of the three dimensional bodies of our everyday experience The implications of a real Minkowski world for physics itself and especially for our world view are enormous The main focus of this volume is the question is spacetime nothing more than a mathematical space which describes the evolution in time of the ordinary three dimensional world or is it a mathematical model of a real four dimensional world with time entirely given as the fourth dimension It contains fourteen invited papers which either directly address the main question of the nature of spacetime or explore issues related to it

Information Dynamics in Cognitive, Psychological, Social, and Anomalous Phenomena Andrei Y. Khrennikov, 2013-06-29 In this book we develop various mathematical models of information dynamics I dynamics including the process of thinking based on methods of classical and quantum physics The main aim of our investigations is to describe mathematically the phenomenon of consciousness We would like to realize a kind of Newton Descartes program corrected by the lessons of statistical and quantum mechanics for information processes Starting from the ideas of Newton and Descartes in physics there was developed an adequate description of the dynamics of material systems We would like to develop an analogous mathematical formalism for information and in particular mental processes At the beginning of the 21st century it is clear that it would be impossible to create a deterministic model for general information processes A deterministic model has to be completed by a corresponding statistical model of information flows and in particular flows of minds It might be that such an information statistical model should have a quantum like structure

Complex Spaces in Finsler, Lagrange and Hamilton

Geometries Gheorghe Munteanu, 2012-11-03 From a historical point of view the theory we submit to the present study has its origins in the famous dissertation of P Finsler from 1918. In the classical notion also conventional classification Finsler geometry has besides a number of generalizations which use the same work technique and which can be considered self geometries Lagrange and Hamilton spaces Finsler geometry had a period of incubation long enough so that few mathematicians E Cartan L Berwald S S Chern H Rund had the patience to penetrate into a universe of tensors which made them compare it to a jungle. To all of us who study nowadays Finsler geometry it is obvious that the qualitative leap was made in the 1970 s by the crystallization of the nonlinear connection notion a notion which is almost as old as Finsler space SZ_4 and by work skills into its adapted frame fields. The results obtained by M Matsumoto collected later in 1986 in a monograph Ma_3 aroused interest not only in Japan but also in other countries such as Romania Hungary Canada and the USA where schools of Finsler geometry are founded and are presently widely recognized.

Theory of High Temperature Superconductivity

S. Fujita, S. Godoy, 2006-04-11 Flux quantization experiments indicate that the carriers Cooper pairs pairons in the supercurrent have charge magnitude $2e$ and that they move independently. Josephson interference in a Superconducting Quantum Interference Device SQUID shows that the centers of masses CM of pairons move as bosons with a linear dispersion relation. Based on this evidence we develop a theory of superconductivity in conventional and materials from a unified point of view. Following Bardeen Cooper and Schrieffer BCS we regard the phonon exchange attraction as the cause of superconductivity. For cuprate superconductors however we take account of both optical and acoustic phonon exchange. BCS started with a Hamiltonian containing electron and hole kinetic energies and a pairing interaction with the phonon variables eliminated. These electrons and holes were introduced formally in terms of a free electron model which we consider unsatisfactory. We define electrons and holes in terms of the curvatures of the Fermi surface. Electrons 1 and holes 2 are different and so they are assigned with different effective masses. Blatt Schafroth and Butler proposed to explain superconductivity in terms of a Bose Einstein Condensation BEC of electron pairs each having mass M and a size. The system of free massive bosons having a quadratic dispersion relation and moving in three dimensions 3D undergoes a BEC transition at where is the pair density.

Theory of the Electron J. Keller, 2005-12-19 In the first century after its discovery the electron has come to be a fundamental element in the analysis of physical aspects of nature. This book is devoted to the construction of a deductive theory of the electron starting from first principles and using a simple mathematical tool geometric analysis. Its purpose is to present a comprehensive theory of the electron to the point where a connection can be made with the main approaches to the study of the electron in physics. The introduction describes the methodology. Chapter 2 presents the concept of space time action relativity theory and in chapter 3 the mathematical structures describing action are analyzed. Chapters 4 5 and 6 deal with the theory of the electron in a series of aspects where the geometrical analysis is more relevant. Finally in chapter 7 the form of geometrical analysis used in the book is presented to elucidate the broad range of

topics which are covered and the range of mathematical structures which are implicitly or explicitly included The book is directed to two different audiences of graduate students and research scientists primarily to theoretical physicists in the field of electron physics as well as those in the more general field of quantum mechanics elementary particle physics and general relativity secondly to mathematicians in the field of geometric analysis **Quantum Measure Theory J.**

Hamhalter,2013-03-14 This book is the first systematic treatment of measures on projection lattices of von Neumann algebras It presents significant recent results in this field One part is inspired by the Generalized Gleason Theorem on extending measures on the projection lattices of von Neumann algebras to linear functionals Applications of this principle to various problems in quantum physics are considered hidden variable problem Wigner type theorems decoherence functional etc Another part of the monograph deals with a fascinating interplay of algebraic properties of the projection lattice with the continuity of measures the analysis of Jauch Piron states independence conditions in quantum field theory etc These results have no direct analogy in the standard measure and probability theory On the theoretical physics side they are instrumental in recovering technical assumptions of the axiomatics of quantum theories only by considering algebraic properties of finitely additive measures states on quantum propositions

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