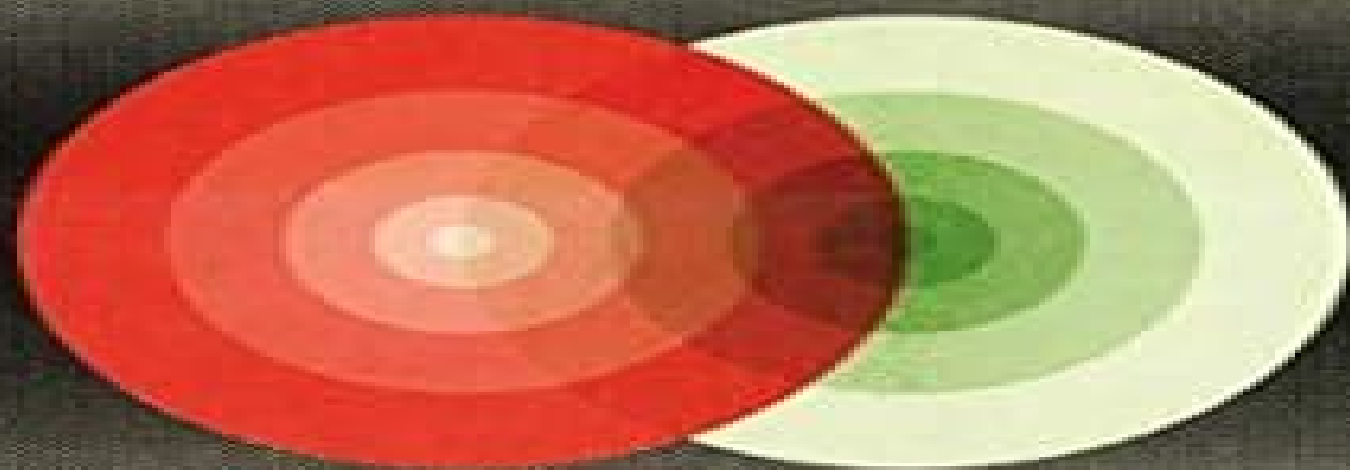


Open Quantum Systems and Feynman Integrals

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Pavel Exner

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Fundamental Theories of Physics

Open Quantum Systems And Feynman Integrals

Sonia Mazzucchi



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Open Quantum Systems and Feynman Integrals P. Exner, 2012-12-06 Every part of physics offers examples of non stability phenomena but probably nowhere are they so plentiful and worthy of study as in the realm of quantum theory The present volume is devoted to this problem we shall be concerned with open quantum systems i e those that cannot be regarded as isolated from the rest of the physical universe It is a natural framework in which non stationary processes can be investigated There are two main approaches to the treatment of open systems in quantum theory In both the system under consideration is viewed as part of a larger system assumed to be isolated in a reasonable approximation They are differentiated mainly by the way in which the state Hilbert space of the open system is related to that of the isolated system either by orthogonal sum or by tensor product Though often applicable simultaneously to the same physical situation these approaches are complementary in a sense and are adapted to different purposes Here we shall be concerned with the first approach which is suitable primarily for a description of decay processes absorption etc The second approach is used mostly for the treatment of various relaxation phenomena It is comparably better examined at present in particular the reader may consult a monograph by E B Davies *Open Quantum Systems and Feynman Integrals* Pavel Exner, 2014-01-15

Mathematics Of Open Quantum Systems, The: Dissipative And Non-unitary Representations And Quantum Measurements Konstantin A Makarov, Eduard R Tsekanovskii, 2021-12-24 This book presents new developments in the open quantum systems theory with emphasis on applications to the frequent measurement theory In the first part of the book the uniqueness theorems for the solutions to the restricted Weyl commutation relations braiding unitary groups and semi groups of contractions are discussed The major theme involves an intrinsic characterization of the simplest symmetric operator solutions to the Heisenberg uncertainty relations the problem posed by J rgsen and Muhly followed by the proof of the uniqueness theorems for the simplest solutions to the restricted Weyl commutation relations The detailed study of unitary invariants of the corresponding dissipative and symmetric operators opens up a look at the classical Stone von Neumann uniqueness theorem from a new angle and provides an extended version of the uniqueness result relating various realizations of a differentiation operator on the corresponding metric graphs The second part of the book is devoted to mathematical problems of the quantum measurements under continuous monitoring Among the topics discussed are the complementarity of the Quantum Zeno effect and Exponential Decay scenario in frequent quantum measurements and a rigorous treatment within continuous monitoring paradigm of the celebrated double slit experiment where the renowned exclusive and interference measurement alternatives approach in quantum theory is presented in a way that is accessible for mathematicians One of the striking applications of the generalized 1 stable central limit theorem is the mathematical evidence of exponential decay of unstable states of the quantum pendulum under continuous monitoring *The Feynman Integral and Feynman's Operational Calculus*, 2000-03-16 The aim of this book is to make accessible to mathematicians

physicists and other scientists interested in quantum theory the beautiful but mathematically difficult subjects of the Feynman integral and Feynman's operational calculus Some advantages of the approaches to the Feynman integral which are treated in detail in this book are the following the existence of the Feynman integral is established for very general potentials in all four cases under more restrictive but still broad conditions three of these Feynman integrals agree with one another and with the unitary group from the usual approach to quantum dynamics these same three Feynman integrals possess pleasant stability properties Much of the material covered here was previously available only in the research literature and the book also contains some new results The background material in mathematics and physics that motivates the study of the Feynman integral and Feynman's operational calculus is discussed and detailed proofs are provided for the central results

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

Mathematical Theory of Feynman Path Integrals Sergio Albeverio, Rafael Høegh-Krohn, Sonia Mazzucchi, 2008-05-30 The 2nd edition of LNM 523 is based on the two first authors mathematical approach of this theory presented in its 1st edition in 1976 An entire new chapter on the current forefront of research has been added Except for this new chapter and the correction of a few misprints the basic material and presentation of the first edition has been maintained At the end of each chapter the reader will also find notes with further bibliographical information

Stochastic Analysis And Mathematical Physics (Samp/anestoc 2002) Rolando

Rebolledo, Jean-claude Zambrini, Jorge Rezende, 2004-09-15 The book collects a series of papers centered on two main streams Feynman path integral approach to Quantum Mechanics and statistical mechanics of quantum open systems Key authors discuss the state of the art within their fields of expertise In addition the volume includes a number of contributed papers with new results which have been thoroughly refereed The contributions in this volume highlight emergent research in the area of stochastic analysis and mathematical physics focusing in particular on Feynman functional integral approach and on the other hand in quantum probability The book is addressed to an audience of mathematical physicists as well as specialists in probability theory stochastic analysis and operator algebras The proceedings have been selected for coverage

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Generalized Dyson Series, Generalized Feynman Diagrams, the Feynman Integral and Feynman's Operational Calculus Gerald W. Johnson, Michel Laurent Lapidus, 1986 The basic purpose of the paper is to construct for the indicated integrals series expansions in terms of finite multiple integrals of increasing multiplicity generalized Dyson series The authors study in detail the character of these expansions in the case when the measure lowercase Greek Eta lowercase Greek Mu lowercase Greek Nu contains in addition to a continuous part lowercase Greek Mu a discrete part lowercase Greek Nu as well Using generalized Feynman diagrams they give a graphical description of the expansions obtained they also describe the Banach algebra generated by the functionals under consideration and establish connections with Feynman's operational calculus

Quantum Mechanics of Non-Hamiltonian and Dissipative Systems Vasily Tarasov, 2008-06-06 Quantum Mechanics of Non Hamiltonian and Dissipative Systems is self contained and can be used by students without a previous course in modern mathematics and physics The book describes the modern structure of the theory and covers the fundamental results of last 15 years The book has been recommended by Russian Ministry of Education as the textbook for graduate students and has been used for graduate student lectures from 1998 to 2006 Requires no preliminary knowledge of graduate and advanced mathematics Discusses the fundamental results of last 15 years in this theory Suitable for courses for undergraduate students as well as graduate students and specialists in physics mathematics and other sciences

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

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