Open Quantum Systems and Feynman Integrals

by

Pavel Exner

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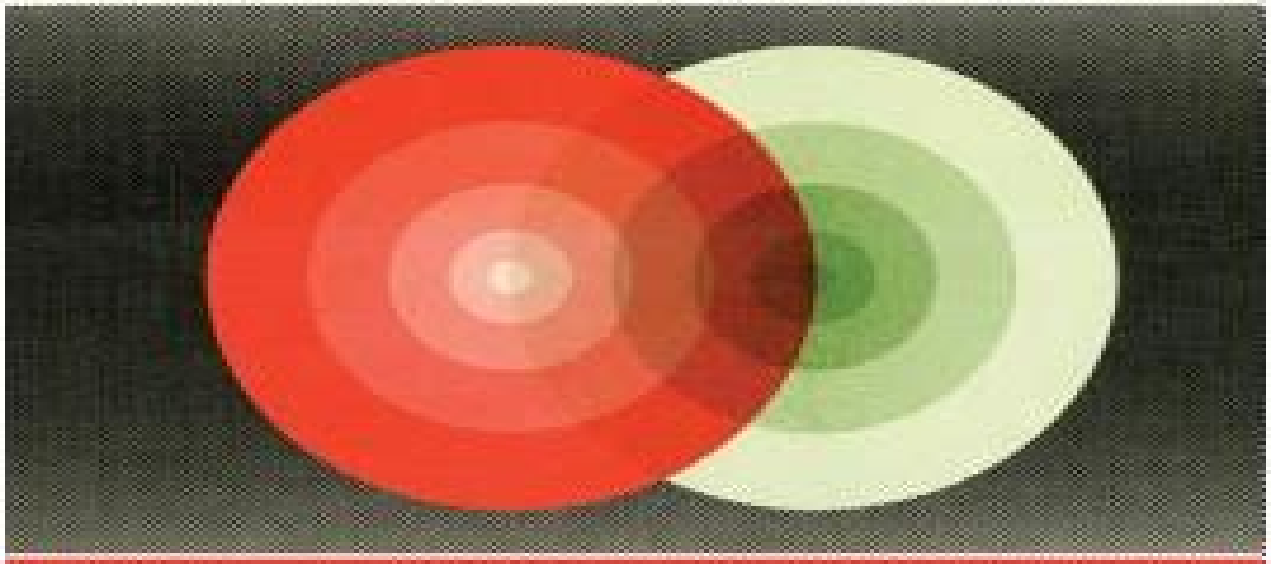

Fundamental Theories of Physics

Open Quantum Systems And Feynman Integrals

JS Bruner

Open Quantum Systems And Feynman Integrals:

Open Quantum Systems and Feynman Integrals Pavel Exner,1984-11-30 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 **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 in Index to Scientific Technical Proceedings ISTP CDROM version ISI Proceedings CC Proceedings Engineering Physical Sciences **Stochastic Analysis And Mathematical Physics (Anestoc '96) - Proceedings Of The 2nd International Workshop** Rolando Rebolledo,1998-09-02 *Stochastic Analysis and Applications* Fred Espen Benth,Giulia Di Nunno,Tom Lindstrom,Bernt Øksendal,Tusheng Zhang,2007-04-24 Kiyosi Ito the founder of stochastic calculus is one of the few central figures of the twentieth century mathematics who reshaped the mathematical world Today stochastic calculus is a central research field with applications in several other mathematical disciplines for example physics engineering biology economics and finance The Abel Symposium 2005 was organized as a tribute to the work of Kiyosi Ito on the occasion of his 90th birthday Distinguished researchers from all over the world were invited to present the newest developments within the exciting and fast growing field of stochastic analysis The present volume combines both papers from the invited speakers and contributions by the presenting lecturers A special feature is the Memoirs that Kiyoshi Ito wrote for this occasion These are

valuable pages for both young and established researchers in the field **Path-integral methods and their applications** ,2002 Energy Research Abstracts ,1986 Handbook of Feynman Path Integrals Christian Grosche,Frank Steiner,1998-06-22 The Handbook of Feynman Path Integrals appears just fifty years after Richard Feynman published his pioneering paper in 1948 entitled Space Time Approach to Non Relativistic Quantum Mechanics in which he introduced his new formulation of quantum mechanics in terms of path integrals The book presents for the first time a comprehensive table of Feynman path integrals together with an extensive list of references it will serve the reader as a thorough introduction to the theory of path integrals As a reference book it is unique in its scope and will be essential for many physicists chemists and mathematicians working in different areas of research *INIS Atomindeks* ,1987 *A General Theory of Integration in Function Spaces, Including Wiener and Feynman Integration* Patrick Muldowney,1987 *Journal of Physics A* ,1997 Focuses on fundamental mathematical and computational methods underpinning physics Relevant to statistical physics chaotic and complex systems classical and quantum mechanics classical and quantum integrable systems and classical and quantum field theory **Functional Integration, Geometry, and Strings** Zbigniew Haba,Jan Sobczyk,1989 Government Reports Annual Index ,1987 **Government Reports Annual Index: Keyword A-L** ,1987 Government Reports Annual Index: Personal author ,1987 *Journal of the Indian Institute of Science* Indian Institute of Science, Bangalore,1997 **Physics Letters** ,2001 General physics atomic physics molecular physics and solid state physics Supplemento ai Rendiconti del Circolo matematico di Palermo Circolo matematico di Palermo,1991 New Research in Quantum Physics Volodymyr Krasnoholovets,Frank H. Columbus,2004 This outstanding new volume brings together state of the art developments in quantum physics The forefront of contemporary advances in physics lies in the submicroscopic regime whether it be in atomic nuclear condensed matter plasma or particle physics or in quantum optics or even in the study of stellar structure All are based upon quantum theory i e quantum mechanics and quantum field theory and relativity which together form the theoretical foundations of modern physics a range of possible values are in quantum theory constrained to have discontinuous or discrete values The intrinsically deterministic character of classical physics is replaced in quantum theory by intrinsic uncertainty According to quantum theory electromagnetic radiation does not always consist of continuous waves instead it must be viewed under some circumstances as a collection of particle like photons the energy and momentum of each being directly proportional to its frequency or inversely proportional to its wavelength the photons still possessing some wavelike characteristics Classical Concepts Millard Baublitz JR Boston University Irreversible Time Flow and Hilbert Space Structure Pavel Kundrat Milos V Lokajicek Institute of Physics AVCR Czech Republic Time as a Dynamical Variable Z Y Wang University of Electronic Science and Technology of China and B Chen University of Central Florida Gamow Vectors and Time Asymmetric Quantum Mechanics M Gadella Universidad de Valladolid Spain and S Wickramasekara St Olaf College Nonperturbative Methods in Quantum Mechanics The Gaussian Functional Approach J Casahorran Universidad de Zaragoza

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