PATH-INTEGRAL METHODS and their APPLICATIONS

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Path Integral Methods And Their Applications

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explicitly solve path integrals of a wide variety of nontrivial quantum mechanical systems in particular the hydrogen atom The solutions have been made possible by two major advances The first is a new euclidean path integral formula which increases the restricted range of applicability of Feynman s time sliced formula to include singular attractive 1 r and 1 r2 potentials The second is a new nonholonomic mapping principle carrying physical laws in flat spacetime to spacetimes with curvature and torsion which leads to time sliced path integrals that are manifestly invariant under coordinate transformations In addition to the time sliced definition the author gives a perturbative coordinate independent definition of path integrals which makes them invariant under coordinate transformations A consistent implementation of this property leads to an extension of the theory of generalized functions by defining uniquely products of distributions The powerful Feynman Kleinert variational approach is explained and developed systematically into a variational perturbation theory which in contrast to ordinary perturbation theory produces convergent results The convergence is uniform from weak to strong couplings opening a way to precise evaluations of analytically unsolvable path integrals in the strong coupling regime where they describe critical phenomena Tunneling processes are treated in detail with applications to the lifetimes of supercurrents the stability of metastable thermodynamic phases and the large order behavior of perturbation expansions A variational treatment extends the range of validity to small barriers A corresponding extension of the large order perturbation theory now also applies to small orders Special attention is devoted to path integrals with topological restrictions needed to understand the statistical properties of elementary particles and the entanglement phenomena in polymer physics and biophysics The Chern Simons theory of particles with fractional statistics anyons is introduced and applied to explain the fractional quantum Hall effect The relevance of path integrals to financial markets is discussed and improvements of the famous Black Scholes formula for option prices are developed which account for the fact recently experienced in the world markets that large fluctuations occur much more frequently than in Gaussian distributions *Path Integrals in Physics* M Chaichian,A Demichev,2001-07-01 Path Integrals in Physics Volume I Stochastic Processes and Quantum Mechanics presents the fundamentals of path integrals both the Wiener and Feynman type and their many applications in physics Accessible to a broad community of theoretical physicists the book deals with systems possessing a infinite number of degrees in freedom It discusses the general physical background and concepts of the path integral approach used followed by a detailed presentation of the most typical and important applications as well as problems with either their solutions or hints how to solve them It describes in detail various applications including systems with Grassmann variables Each chapter is self contained and can be considered as an independent textbook The book provides a comprehensive detailed and systematic account of the subject suitable for both students and experienced researchers *Path Integrals--New Trends and Perspectives* Wolfhard Janke,2008 This proceedings volume contains selected talks and poster presentations from the 9th International Conference on Path Integrals OCo New Trends and Perspectives which took

place at the Max Planck Institute for the Physics of Complex Systems in Dresden Germany during the period September 23OCo28 2007 Continuing the well developed tradition of the conference series the present status of both the different techniques of path integral calculations and their diverse applications to many fields of physics and chemistry is reviewed This is reflected in the main topics in this volume which range from more traditional fields such as general quantum physics and quantum or statistical field theory through technical aspects like Monte Carlo simulations to more modern applications in the realm of quantum gravity and astrophysics condensed matter physics with topical subjects such as BoseOCoEinstein condensation or quantum wires biophysics and econophysics All articles are successfully tied together by the common method of path integration as a result special methodological advancements in one topic could be transferred to other topics

    Path Integral Methods in Quantum Field Theory R. J. Rivers,1988-10-27 The applications of functional integral methods introduced in this text for solving a range of problems in quantum field theory will prove useful for students and researchers in theoretical physics and quantum field theory **Path Integrals And Coherent States Of Su(2) And Su(1, 1)** A Inomata,H Kuratsuji,C C Gerry,1992-09-25 The authors examine several topical subjects commencing with a general introduction to path integrals in quantum mechanics and the group theoretical backgrounds for path integrals Applications of harmonic analysis polar coordinate formulation various techniques and path integrals on SU 2 and SU 1 1 are discussed Soluble examples presented include particle flux system a pulsed oscillator magnetic monopole the Coulomb problem in curved space and others The second part deals with the SU 2 coherent states and their applications Construction and generalization of the SU 2 coherent states formulation of coherent path integrals for spin and unitary spin and semiclassical quantization are presented Applications are made to the study of quantum fluctuation the nonlinear field model and phase holonomy The final chapters present the theory of the SU 1 1 coherent states and their applications The radial coulomb problem the Morse oscillator and the large N approximation are discussed Applications to problems in quantum optics such as squeezed states interaction with the squeezed vacuum states and phase operator formalism are also included This book will be useful as an introduction to the subject as well as a valuable work of reference **Path Integrals in Physics** M Chaichian,A Demichev,2018-10-03 Path Integrals in Physics Volume I Stochastic Processes and Quantum Mechanics presents the fundamentals of path integrals both the Wiener and Feynman type and their many applications in physics Accessible to a broad community of theoretical physicists the book deals with systems possessing a infinite number of degrees in freedom It discusses the general physical background and concepts of the path integral approach used followed by a detailed presentation of the most typical and important applications as well as problems with either their solutions or hints how to solve them It describes in detail various applications including systems with Grassmann variables Each chapter is self contained and can be considered as an independent textbook The book provides a comprehensive detailed and systematic account of the subject suitable for both students and experienced researchers **Path Integrals In Quantum Mechanics,**

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and mathematical theoretical physics and to provide an exposition of the present novel approach along with its basic toolkit Having in mind a researcher or a Ph D student as reader we collected in Part I the necessary background in the most suitable form for our purposes following a smooth pedagogical pattern Then Part II covers the analysis of path integrals reflecting the topics addressed in the research activity of the authors in the last years **Path Integrals for Stochastic Processes** Horacio S. Wio,2013 This book provides an introductory albeit solid presentation of path integration techniques as applied to the field of stochastic processes The subject began with the work of Wiener during the 1920 s corresponding to a sum over random trajectories anticipating by two decades Feynman s famous work on the path integral representation of quantum mechanics However the true trigger for the application of these techniques within nonequilibrium statistical mechanics and stochastic processes was the work of Onsager and Machlup in the early 1950 s The last quarter of the 20th century has witnessed a growing interest in this technique and its application in several branches of research even outside physics for instance in economy The aim of this book is to offer a brief but complete presentation of the path integral approach to stochastic processes It could be used as an advanced textbook for graduate students and even ambitious undergraduates in physics It describes how to apply these techniques for both Markov and non Markov processes The path expansion or semiclassical approximation is discussed and adapted to the stochastic context Also some examples of nonlinear transformations and some applications are discussed as well as examples of rather unusual applications An extensive bibliography is included The book is detailed enough to capture the interest of the curious reader and complete enough to provide a solid background to explore the research literature and start exploiting the learned material in real situations

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