
PATH INTEGRALS — *and* — QUANTUM PROCESSES

— MARK SWANSON —

Path Integrals And Quantum Processes

Lei Huang



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Path Integrals and Quantum Processes Mark S. Swanson, 2014-02-19 Graduate level systematic presentation of path integral approach to calculating transition elements partition functions and source functionals Covers Grassmann variables field and gauge field theory perturbation theory and nonperturbative results 1992 edition **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 an infinite number of degrees of 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 For Stochastic**

Processes: An Introduction Horacio Sergio Wio, 2013-01-18 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 remove a **Path Integrals in Quantum Mechanics, Statistics, Polymer Physics, and Financial Markets**

Hagen Kleinert, 2004 This is the third significantly expanded edition of the comprehensive textbook published in 1990 on the theory and applications of path integrals It is the first book to explicitly solve path integrals of a wide variety of nontrivial quantum mechanical systems in particular the hydrogen atom The solutions have become possible by two major advances The first is a new euclidean path integral formula which increases the restricted range of applicability of Feynman s famous

formula to include singular attractive $1/r$ and $1/r^2$ potentials The second is a simple quantum equivalence principle governing the transformation of euclidean path integrals to spaces 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 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 integrals over 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 expansions The convergence is uniform from weak to strong couplings opening a way to precise approximate evaluations of analytically unsolvable path integrals Tunneling processes are treated in detail The results are used to determine the lifetime of supercurrents the stability of metastable thermodynamic phases and the large order behavior of perturbation expansions A new variational treatment extends the range of validity of previous tunneling theories from large to small barriers A corresponding extension of large order perturbation theory also applies now to small orders Special attention is devoted to path integrals with topological restrictions These are relevant to the understanding of the statistical properties of elementary particles and the entanglement phenomena in polymer physics and biophysics The Chem 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 given which account for the fact that large market fluctuations occur much more frequently than in the commonly used Gaussian distributions

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Path Integrals In Quantum Mechanics, Statistics, Polymer Physics, And Financial Markets (5th Edition) Hagen Kleinert, 2009-05-18 This is the fifth expanded edition of the comprehensive textbook published in 1990 on the theory and applications of path integrals It is the first book to 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 $1/r^2$ 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

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become possible by two major advances The first is a new euclidean path integral formula which increases the restricted range of applicability of Feynman s famous formula to include singular attractive $1/r$ and $1/r^2$ potentials The second is a simple quantum equivalence principle governing the transformation of euclidean path integrals to spaces 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 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 integrals over 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 expansions The convergence is uniform from weak to strong couplings opening a way to precise approximate evaluations of analytically unsolvable path integrals Tunneling processes are treated in detail The results are used to determine the lifetime of supercurrents the stability of metastable thermodynamic phases and the large order behavior of perturbation expansions A new variational treatment extends the range of validity of previous tunneling theories from large to small barriers A corresponding extension of large order perturbation theory also applies now to small orders Special attention is devoted to path integrals with topological restrictions These are relevant to the understanding of 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 given which account for the fact that large market fluctuations occur much more frequently than in the commonly used Gaussian distributions The author s other book on Critical Properties of 4 Theories gives a thorough introduction to the field of critical phenomena and develops new powerful resummation techniques for the extraction of physical results from the divergent perturbation expansions

Path Integrals in Quantum Mechanics Jean Zinn-Justin, 2010-07-08 Quantum field theory is hardly comprehensible without path integrals the goal of this book is to introduce students to this topic within the context of ordinary quantum mechanics and non relativistic many body theory before facing the problems associated with the more involved quantum field theory formalism

Path Integrals in Physics: Stochastic processes and quantum mechanics Masud Chaichian, 2001 **A Trajectory Description of**

Quantum Processes. I. Fundamentals Ángel S. Sanz, Salvador Miret-Artés, 2012-03-27 Trajectory based formalisms are an intuitively appealing way of describing quantum processes because they allow the use of classical concepts Beginning at an introductory level suitable for students this two volume monograph presents 1 the fundamentals and 2 the applications of the trajectory description of basic quantum processes This first volume is focussed on the classical and quantum background necessary to understand the fundamentals of Bohmian mechanics which can be considered the main topic of this work

Extensions of the formalism to the fields of open quantum systems and to optics are also proposed and discussed

Generated Dynamics of Markov and Quantum Processes Martin Janßen, 2016-04-28 This book presents Markov and quantum processes as two sides of a coin called generated stochastic processes It deals with quantum processes as reversible stochastic processes generated by one step unitary operators while Markov processes are irreversible stochastic processes generated by one step stochastic operators The characteristic feature of quantum processes are oscillations interference lots of stationary states in bounded systems and possible asymptotic stationary scattering states in open systems while the characteristic feature of Markov processes are relaxations to a single stationary state Quantum processes apply to systems where all variables that control reversibility are taken as relevant variables while Markov processes emerge when some of those variables cannot be followed and are thus irrelevant for the dynamic description Their absence renders the dynamic irreversible A further aim is to demonstrate that almost any subdiscipline of theoretical physics can conceptually be put into the context of generated stochastic processes Classical mechanics and classical field theory are deterministic processes which emerge when fluctuations in relevant variables are negligible Quantum mechanics and quantum field theory consider genuine quantum processes Equilibrium and non equilibrium statistics apply to the regime where relaxing Markov processes emerge from quantum processes by omission of a large number of uncontrollable variables Systems with many variables often self organize in such a way that only a few slow variables can serve as relevant variables Symmetries and topological classes are essential in identifying such relevant variables The third aim of this book is to provide conceptually general methods of solutions which can serve as starting points to find relevant variables as to apply best practice approximation methods Such methods are available through generating functionals The potential reader is a graduate student who has heard already a course in quantum theory and equilibrium statistical physics including the mathematics of spectral analysis eigenvalues eigenvectors Fourier and Laplace transformation The reader should be open for a unifying look on several topics

Path Integrals in Stochastic Engineering Dynamics Ioannis A. Kougiumtzoglou, Apostolos F. Psaros, Pol D. Spanos, 2024-06-05 This book organizes and explains in a systematic and pedagogically effective manner recent advances in path integral solution techniques with applications in stochastic engineering dynamics It fills a gap in the literature by introducing to the engineering mechanics community for the first time in the form of a book the Wiener path integral as a potent uncertainty quantification tool Since the path integral flourished within the realm of quantum mechanics and theoretical physics applications most books on the topic have focused on the complex valued Feynman integral with only few exceptions which present path integrals from a stochastic processes perspective Remarkably there are only few papers and no books dedicated to path integral as a solution technique in stochastic engineering dynamics Summarizing recently developed techniques this volume is ideal for engineering analysts interested in further establishing path integrals as an alternative potent conceptual and computational vehicle in stochastic engineering dynamics

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Hamiltonians B. E. Baaquie, 2014-03-27 A succinct introduction to the powerful and flexible combination of Hamiltonian operators and path integrals in quantum mathematics with a practical emphasis on methodological and mathematical aspects Essential reading for researchers and graduate students in physics and engineers whose work touches on quantum mechanics *Selected Topics in Mathematical Physics* R. Sridhar, 1995 Ramabhadra Vasudevan 1926 1994 mathematical physicist from Tamil Nadu India contributed articles

Evolution Processes and the Feynman-Kac Formula Brian Jefferies, 2013-03-09 This book is an outgrowth of ideas originating from I. Kluvanek Unfortunately Professor Kluvanek did not live to contribute to the project of writing up in a systematic form the circle of ideas to which the present work is devoted It is more than likely that with his input the approach and areas of emphasis of the resulting exposition would have been quite different from what we have here Nevertheless the stamp of Kluvanek's thought and philosophy but not necessarily his approval abounds throughout this book Although the title gives no indication integration theory in vector spaces is a central topic of this work However the various notions of integration developed here are intimately connected with a specific application the representation of evolutions by functional integrals The representation of a perturbation to the heat semigroup in terms of Wiener measure is known as the Feynman-Kac formula but the term has a wider meaning in the present work Traditionally such representations have been used to obtain analytic information about perturbations to free evolutions as an alternative to arguments with a more operator theoretic flavour No applications of this type are given here It is an underlying assumption of the presentation of this material that representations of the nature of the Feynman-Kac formula are worth obtaining and in the process of obtaining them we may be led to new possibly fertile mathematical structures a view largely motivated by the pervasive use of path integrals in quantum physics

Path Integrals For Pedestrians Ennio Gozzi, Enrico Cattaruzza, Carlo Pagani, 2015-11-18 This book aims to provide a quick pedagogical introduction to path integrals It contains original material that never before has appeared in a book for example the path integrals for the Wigner functions and for Classical Mechanics This application to Classical Mechanics connects different fields like Hamiltonian mechanics and differential geometry so the book is suitable for students and researchers from various disciplines

Superconformal Index on $RP^2 \times S^1$ and 3D Mirror Symmetry Akinori Tanaka, 2016-08-12 The author introduces the supersymmetric localization technique a new approach for computing path integrals in quantum field theory on curved space time defined with interacting Lagrangian The author focuses on a particular quantity called the superconformal index SCI which is defined by considering the theories on the product space of two spheres and circles in order to clarify the validity of so called three dimensional mirror symmetry one of the famous duality proposals In addition to a review of known results the author presents a new definition of SCI by considering theories on the product space of real projective space and circles In this book he explains the concept of SCI from the point of view of quantum mechanics and gives localization computations by reducing field theoretical computations to many body quantum mechanics He applies his

new results of SCI with real projective space to test three dimensional mirror symmetry one of the dualities of quantum field theory Real projective space is known to be an unorientable surface like the Mobius strip and there are many exotic effects resulting from Z_2 holonomy of the surface Thanks to these exotic structures his results provide completely new evidence of three dimensional mirror symmetry The equivalence expected from three dimensional mirror symmetry is transformed into a conjectural non trivial mathematical identity through the new SCI and he performs the proof of the identity using a q binomial formula

Engineering Applications of Noncommutative Harmonic Analysis Gregory S. Chirikjian, Alexander B. Kyatkin, 2021-02-25 First published in 2001 The classical Fourier transform is one of the most widely used mathematical tools in engineering However few engineers know that extensions of harmonic analysis to functions on groups holds great potential for solving problems in robotics image analysis mechanics and other areas For those that may be aware of its potential value there is still no place they can turn to for a clear presentation of the background they need to apply the concept to engineering problems Engineering Applications of Noncommutative Harmonic Analysis brings this powerful tool to the engineering world Written specifically for engineers and computer scientists it offers a practical treatment of harmonic analysis in the context of particular Lie groups rotation and Euclidean motion It presents only a limited number of proofs focusing instead on providing a review of the fundamental mathematical results unknown to most engineers and detailed discussions of specific applications Advances in pure mathematics can lead to very tangible advances in engineering but only if they are available and accessible to engineers Engineering Applications of Noncommutative Harmonic Analysis provides the means for adding this valuable and effective technique to the engineer s toolbox

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