Michio Masujima

# Path Integral Quantization and Stochastic Quantization

# Path Integral Quantization And Stochastic Quantization

M Chaichian,A Demichev

**Path Integral Quantization And Stochastic Quantization:**

    **Path Integral Quantization and Stochastic Quantization** Michio Masujima,2003-07-01 In this book we discuss the path integral quantization and the stochastic quantization of classical mechanics and classical field theory For the description of the classical theory we have two methods one based on the Lagrangian formalism and the other based on the Hamiltonian formal ism The Harniltonian formalisni is derived from the Lagrangian formalism In the standard formalism of quantum mechanics we usually make use of the Hamiltonian formalism This fact originates from the following circumstance which dates back to the birth of quantum mechanics The first formalism of quantum mechanics is Schrodinger s wave mechan ics In this approach we regard the Hamilton Jacobi equation of analytical mechanics as the Eikonal equation of geometrical mechanics Bsed on the optical analogy we obtain the Schrodinger equation as a result of the inverse of the Eikonal approximation to the Hamilton Jacobi equation and thus we arrive at wave mechanics The second formalism of quantum mechanics is Heisenberg s matrix me chanics In this approach we arrive at the Heisenberg equation of motion frorn consideration of the consistency of the Ritz combination principle the Bohr quantization condition and the Fourier analysis of a physical quantity These two forrnalisrns make up the Hamiltonian formalism of quantum me chanics *Stochastic Quantization* Mikio Namiki,2008-10-04 This is a textbook on stochastic quantization which was originally proposed by G Parisi and Y S Wu in 1981 and then developed by many workers I assume that the reader has finished a standard course in quantum field theory The Parisi Wu stochastic quantization method gives quantum mechanics as the thermal equilibrium limit of a hypothetical stochastic process with respect to some fictitious time other than ordinary time We can consider this to be a third method of quantization remarkably different from the conventional theories i e the canonical and path integral ones Over the past ten years we have seen the technical merits of this method in quantizing gauge fields and in performing large numerical simulations which have never been obtained by the other methods I believe that the stochastic quantization method has the potential to extend the territory of quantum mechanics and of quantum field theory However I should remark that stochastic quantization is still under development through many mathematical improvements and physical applications and also that the fictitious time of the theory is only a mathematical tool for which we do not yet know its origin in the physical background For these reasons in this book I attempt to describe its theoretical formulation in detail as well as practical achievements **Path Integral Quantization and Stochastic Quantization** Michio Masujima,2008-11-21 In this book we discuss the path integral quantization and the stochastic quantization of classical mechanics and classical field theory Forthe description ofthe classical theory we have two methods one based on the Lagrangian formalism and the other based on the Hamiltonian formal ism The Hamiltonian formalism is derived from the Lagrangian formalism In the standard formalism ofquantum mechanics we usually make use ofthe Hamiltonian formalism This fact originates from the following circumstance which dates back to the birth of quantum mechanics The first formalism ofquantum mechanics is Schrodinger s

wave mechan ics In this approach we regard the Hamilton Jacobi equation of analytical mechanics as the Eikonal equation of geometrical mechanics Based on the optical analogy we obtain the Schrodinger equation as a result ofthe inverse of the Eikonal approximation to the Hamilton Jacobi equation and thus we arrive at wave mechanics The second formalism ofquantum mechanics is Heisenberg s matrix me chanics In this approach we arrive at the Heisenberg equation of motion from consideration of the consistency of the Ritz combination principle the Bohr quantization condition and the Fourier analysis of a physical quantity These two formalisms make up the Hamiltonian formalism of quantum me chanics

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*Path Integral Quantization Hb* SWANSON,2020-08-06 This book is a self contained and concise introduction to the techniques and applications of path integral quantization and functional techniques aimed at students and practitioners The first half of the text focuses on quantum mechanics including a review of the action formulation of classical mechanics and quantum mechanics in the Dirac operator and state formalism and further examination of the path integral The second part examines relativistic field theories reviewing special relativity as well as derivation of the path integral representation of the vacuum transition element for quantized scalar spinor and vector fields from the coherent state representation of the respective field theories Key Features Concise introduction to the derivation and methods of path integral approaches to quantum mechanics and quantum field theory Self contained guide for students and practitioners      *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      Acta Physica Hungarica ,1990
    **Constrained Dynamics and Quantum Gravity 1999** Vittorio De Alfaro,2000      *CAP-NSERC Summer Institute in Theoretical Physics, Edmonton, Alberta, 10-25 July 1987: Quantum field theory as an interdisciplinary basis* F. C. Khanna,1988      *Physics Letters* ,2000      Recent Advances in Theoretical Physics R. Ramachandran,1985

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