Path Integral Quantization And Stochastic Quantization

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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   **Stochastic Quantization** Mikio Namiki,1992   *Path-integral Measure for Chern-Simons Theory Within the Stochastic Quantization Approach* L. F. Cugliandolo,G. Lozano,F. A. Schaposnik,1990   **Path Integrals in Physics** M Chaichian,A Demichev,2018-10-08 The path integral approach has proved extremely useful for the understanding of the most complex problems in quantum field theory cosmology and condensed matter physics Path Integrals in Physics Volume II Quantum Field Theory Statistical Physics and other Modern Applications covers the fundamentals of path integrals both the Wiener and Feynman types and their many applications in physics The book deals

with systems that have 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 Each chapter is self contained and can be considered as an independent textbook It provides a comprehensive detailed and systematic account of the subject suitable for both students and experienced researchers **Path Integrals and Hamiltonians** Belal E. Baaquie,2014-03-27 Providing a pedagogical introduction to the essential principles of path integrals and Hamiltonians this book describes cutting edge quantum mathematical techniques applicable to a vast range of fields from quantum mechanics solid state physics statistical mechanics quantum field theory and superstring theory to financial modeling polymers biology chemistry and quantum finance Eschewing use of the Schr dinger equation the powerful and flexible combination of Hamiltonian operators and path integrals is used to study a range of different quantum and classical random systems succinctly demonstrating the interplay between a system s path integral state space and Hamiltonian With a practical emphasis on the methodological and mathematical aspects of each derivation this is a perfect introduction to these versatile mathematical methods suitable for researchers and graduate students in physics and engineering **Big Data Analysis: New Algorithms for a New Society** Nathalie Japkowicz,Jerzy Stefanowski,2015-12-16 This edited volume is devoted to Big Data Analysis from a Machine Learning standpoint as presented by some of the most eminent researchers in this area It demonstrates that Big Data Analysis opens up new research problems which were either never considered before or were only considered within a limited range In addition to providing methodological discussions on the principles of mining Big Data and the difference between traditional statistical data analysis and newer computing frameworks this book presents recently developed algorithms affecting such areas as business financial forecasting human mobility the Internet of Things information networks bioinformatics medical systems and life science It explores through a number of specific examples how the study of Big Data Analysis has evolved and how it has started and will most likely continue to affect society While the benefits brought upon by Big Data Analysis are underlined the book also discusses some of the warnings that have been issued concerning the potential dangers of Big Data Analysis along with its pitfalls and challenges **Applied Asymptotic Expansions in Momenta and Masses** Vladimir A. Smirnov,2003-07-01 The sturgeon they sent was second grade fresh said the barman Really what nonsense Why nonsense Second grade fresh that s what I call nonsense There s only one degree of freshness the first and it s the last M A Bulgakov The Master and Margarita The goal of this book is to describe in detail how Feynman integrals can be expanded in suitable parameters when various momenta or masses are small or large In a narrow sense this problem is connected with practical calcula tions In a situation where a given Feynman integral depends on parameters of very different scales a natural idea is to replace it by a sufficiently large number of terms of an expansion of it in ratios of small and large scales It will be explained how this problem of expansion can be systematically solved by formulating universal prescriptions

that express terms of the expansion by using the original Feynman integral with its integrand expanded into a Taylor series in appropriate momenta and masses It turns out that knowledge of the structure of the asymptotic expansion at the diagrammatic level is a key point in understanding how to perform expansions at the operator level There are various examples of these ex pansions the operator product expansion the large mass expansion Heavy Quark Effective Theory Non Relativistic QCD etc Each of them serves as a realization of the factorization of contributions of different scales

Electronic Quantum Transport in Mesoscopic Semiconductor Structures Thomas Ihn,2004-09-09 The physics of semiconductors has seen an enormous evolution within the last fty years Countless achievements have been made in scienti c research and device applications have revolutionized everyday life We have learned how to customize materials in order to tailor their optical as well as electronic properties The on ing trend toward device miniaturization has been the driving force on the appli tion side and it has fertilized fundamental research Nowadays advanced processing techniques allow the fabrication of sub micron semiconductor structures in many university research laboratories At the same time experiments down to millikelvin temperatures allow researchers to anticipate the observation of quantum phenomena so far hidden at room temperature by the large thermal energy and strong dephasing The eld of mesoscopic physics deals with systems under experimental con tions where several quantum length scales for electrons such as system size and phase coherence length or phase coherence length and elastic mean free path are compa ble Intense research over the last twenty years has revealed an enormous richness of quantum effects in mesoscopic semiconductor physics which is typically charact ized by an interplay of quantum interference and many body interactions The most famous phenomena are probably the integer and fractional quantum Hall effects the quantization of conductance through a quantum point contact the Aharonov Bohm effect and single electron charging of quantum dots   High-Tc Superconductors for Magnet and Energy Technology Beate Lehndorff,2003-07-01 Since the discovery of high temperature superconductors the scientific com nmity has been very active in research on material and system development as well as on the basic understanding of the mechanism of superconductiv ity at high transition temperatures Industrial groups joined in very soon as with these new materials the prospects for commercial application of super conductivity seemed to be more promising than ever Materials processing was divided into film deposition and bulk preparation techniques the latter including conductor fabrication and melt growth of monolithic samples as well Because of the high impact of possible applications in energy technol ogy wire and tape fabrication of the BSCCO superconductors is one of the most important fields in addition to thin film technology for mobile comuni cation Only since processes like IBAD and RABiTS TM were invented have film deposition techniques also become important for energy technology In order to produce suitable conductors with material properties which meet the challenge imposed by energy technology detailed understanding of the phase formation and physical properties of the high temperature super conductors is necessary The goal of this book is on one hand to provide the basic information on phase

formation and physical properties and to give a short overview of the state of the art in conductor preparation and character ization On the other hand it contains the author s own results in the field of preparation and characterization

  Probabilistic Methods in Quantum Field Theory and Quantum Gravity Poul Henrik Damgaard,H. Hüffel,A. Rosenblum,2012-12-06 From August 21 through August 27 1989 the Nato Advanced Research Workshop Probabilistic Methods in Quantum Field Theory and Quantum Gravity was held at l Institut d Etudes Scientifiques Cargese France This publication is the Proceedings of this workshop The purpose of the workshop was to bring together a group of scientists who have been at the forefront of the development of probabilistic methods in Quantum Field Theory and Quantum Gravity The original thought was to put emphasis on the introduction of stochastic processes in the understanding of Euclidean Quantum Field Theory with also some discussion of recent progress in the field of stochastic numerical methods During the final preparation of the meeting we broadened the scope to include all those Euclidean Quantum Field Theory descriptions that make direct reference to concepts from probability theory and statistical mechanics Several of the main contributions centered around a more rigorous discussion of stochastic processes for the formulation of Euclidean Quantum Field Theory These rather stringent mathematical approaches were contrasted with the more heuristic stochastic quantization scheme developed in 1981 by Parisi and Wu Stochastic quan tization its intrinsic BRST structure and stochastic regularization appeared in many disguises and in connection with several different problems throughout the workshop   Differential Geometric Methods In Theoretical Physics - Proceedings Of The Xx International Conference (In 2 Volumes) Sultan Catto,Alvany Rocha,1992-01-27 This proceedings reports on some of the most recent advances on the interaction between Differential Geometry and Theoretical Physics a very active and exciting area of contemporary research The papers are grouped into the following four broad categories Geometric Methods Noncommutative Geometry Quantum Gravity and Topological Quantum Field Theory A few of the topics covered are Chern Simons Theory and Generalizations Knot Invariants Models of 2D Gravity Quantum Groups and Strings on Black Holes   Topological Methods In Quantum Field Theories Werner Nahm,Seifallah Randjbar-daemi,Ergin Sezgin,Edward Witten,1991-05-17 Over the last two decades topological ideas have found increasingly more applications in quantum field theory Topological field theories are the culmination of these developments and they formed the dominating theme of the conference The other focal point was two dimensional quantum gravity The participation of such leading mathematicians as M Atiyah R Bott G Segal and I Singer is a testmony to the deep interplay of mathematics and theoretical physics   Quantum-like Models And Coherent Effects - Proceedings Of The 27th Workshop Of The Infn Eloisation Project Padma Kant Shukla,Renato Fedele,1995-10-17 On July 17 2012 the centenary of Henri Poincar s death was commemorated his name being associated with so many fields of knowledge that he was considered as the Last Universalist In Pure and Applied Mathematics Physics Astronomy Engineering and Philosophy his works have had a great impact all over the world Poincar acquired in his lifetime such a reputation that both nationally and

internationally his life and career were made the object of various articles in the daily papers not only in France but also in the USA Some of his philosophical concepts have even caused sharp controversies in the Press as we will discover in this book This work presents an original portrait of Henri Poincar based on various press cuttings from The New York Times The San Francisco Sunday Call The Times The Sun The Washington Post that chronicled unknown anecdotes of his life for example his first name was actually not Henri but Henry he obtained his high school diploma in sciences with a zero in mathematics etc Such an approach enables the discovering of many forgotten or unknown aspects of his scientific and philosophical works as well as his important role in the public sphere   Timeless Approach, The: Frontier Perspectives In 21st Century Physics Davide Fiscaletti,2015-09-08 This invaluable book provides a broad and comprehensive introduction to the fascinating and beautiful subject of timeless approaches in physics focusing the attention in particular on significant models developed recently by the author It presents relevant and novel perspectives in 21st century theoretical physics as regards the arena of physical processes and its geometry both in special relativity quantum mechanics the quantum gravity domain and about the quantum vacuum The timeless approach may be used as a source of reference by researchers in theoretical physics and at the same time it is also suitable for graduate students in physics who wish to have an extend view of some of the classic and fundamental models in the subject   Scientific and Technical Aerospace Reports ,1991

   Energy Research Abstracts ,1992   **Strong Interactions and Gauge Theories** J. Thanh Van Tran,1986

   Quantum Theory of Many-variable Systems and Fields B. Sakita,1985 These lecture notes are based on special courses on Field Theory and Statistical Mechanics given for graduate students at the City College of New York It is an ideal text for a one semester course on Quantum Field Theory   **Semiconductor Cavity Quantum Electrodynamics** Y. Yamamoto,F. Tassone,H. Cao,2003-07-01 This monograph is the first to give a comprehensive account of the theory of semiconductor cavity quantum electrodynamics for such systems in the weak coupling and strong coupling regimes It presents the important concepts together with relevant recent experimental results

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