

STOCHASTIC QUANTIZATION

P. H. Damgaard
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Stochastic Quantization

Michio Masujima



Stochastic Quantization:

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, 2013-11-20 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, 2014-01-15 Stochastic Quantization Poul Henrik Damgaard, Helmuth Høffel, 1988 This collection of selected reprints presents as broad a selection as possible emphasizing formal and numerical aspects of Stochastic Quantization It reviews and explains the most important concepts placing selected reprints and crucial papers into perspective and compact form

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 For the description of the classical theory we have two methods one based on the Lagrangian formalism and the other

based on the Hamiltonian formalism The Hamiltonian formalism 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 mechanics 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 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 mechanics 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 mechanics

Geometry, Topology and Quantization P. Bandyopadhyay, 2013-03-07 This is a monograph on geometrical and topological features which arise in various quantization procedures Quantization schemes consider the feasibility of arriving at a quantum system from a classical one and these involve three major procedures viz i geometric quantization ii Klauder quantization and iii stochastic quantization In geometric quantization we have to incorporate a hermitian line bundle to effectively generate the quantum Hamiltonian operator from a classical Hamiltonian Klauder quantization also takes into account the role of the connection one-form along with coordinate independence In stochastic quantization as proposed by Nelson Schrodinger equation is derived from Brownian motion processes however we have difficulty in its relativistic generalization It has been pointed out by several authors that this may be circumvented by formulating a new geometry where Brownian motion processes are considered in external as well as in internal space and when the complexified space-time is considered the usual path integral formulation is achieved When this internal space variable is considered as a direction vector introducing an anisotropy in the internal space we have the quantization of a Fermi field This helps us to formulate a stochastic phase space formalism when the internal extension can be treated as a gauge theoretic extension This suggests that massive fermions may be considered as Skyrme solitons The nonrelativistic quantum mechanics is achieved in the sharp point limit

Stochastic Quantization Scheme of Parisi and Wu S. Chaturvedi, A. K. Kapoor, V. Srinivasan, 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

Quarks, Symmetries And Strings - A Symposium In Honor Of Bunji Sakita's 60th Birthday Michio Kaku, Antal Jevicki, Keiji Kikkawa, 1991-04-30 Quarks Symmetries and Strings is a book that reflects the rich diversity of current research in physics it describes quantum chromodynamics quark phenomenology superstring theory supersymmetry matrix models statistical methods superconductivity and neural networks The book also reflects the diversity of Dr Bunji Sakita's scientific work Dr Sakita has made seminal contributions in many of these areas The book celebrates the many path breaking ideas he pioneered which still cross fertilize many of the most active areas of current research

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 quantization its intrinsic BRST structure and stochastic regularization appeared in many disguises and in connection with several different problems throughout the workshop

Stochastic Quantization Sanjoy K. Mitter, Center for Intelligent Control Systems (U.S.), Massachusetts Institute of Technology. Laboratory for Information and Decision Systems, 1988

Fundamental Aspects of Quantum Theory Vittorio Gorini, Alberto Frigerio, 2012-12-06 This book collects the contributions to the NATO Advanced Research Workshop on Fundamental Aspects of Quantum Theory held at the Centro di Cultura Scientifica Alessandro Volta Villa Olma Carro Italy 27 September 1985 The meeting was dedicated to the memory of the late professor Piero Caldirola a prominent member of the Physics Department of the University of Milan and a native of Como The aim of the workshop has been to present several recent experimental results and theoretical developments concerning the various facets of quantum physics The breadth of scope of the meeting was in accordance with Professor Caldirola's vast scientific interests and fostered communication among experimental physicists theoretical and mathematical physicists and mathematicians working in different but related fields Indeed lecturers endeavoured to make their contributions understandable to people acquainted with the problem but

not necessarily familiar with the technical details and these efforts were successful as indicated by the frequent private discussions which took place among participants belonging to different breeds and brands. The meeting was made up of six one-day sessions each of them addressing to a specific aspect of quantum theory. 1 General Problems and Crucial Experiments with emphasis on single particle interference experiments of neutrons and of photons and on the measurement problem. 2 Quantization and Stochastic Processes including stochastic quantization of gauge fields stochastic description of supersymmetric fields quantum stochastic calculus and stochastic mechanics

Spatio-temporal Chaos & Vacuum Fluctuations Of Quantized Fields Christian Beck, 2002-04-29 This book describes new applications for spatio-temporal chaotic dynamical systems in elementary particle physics and quantum field theories. The stochastic quantization approach of Parisi and Wu is extended to more general deterministic chaotic processes as generated by coupled map lattices. In particular so-called chaotic strings are introduced as a suitable small scale dynamics of vacuum fluctuations. This more general approach to second quantization reduces to the ordinary stochastic quantization scheme on large scales but it also opens up interesting new perspectives: chaotic strings appear to minimize their vacuum energy for the observed numerical values of the free standard model parameters.

Color Confinement And Hadrons In Quantum Chromodynamics, Proceedings Of The International Conference Hideo Suganuma, Hideto Enyo, Tetsuo Hatsuda, Teiji Kunihiro, Makoto Oka, Koichi Yazaki, Noriyoshi Ishii, 2004-05-07 This book makes a global survey of nonperturbative aspects of quantum chromodynamics (QCD) from the viewpoints of mathematical elementary particle and hadron physics including recent lattice QCD results. It presents current important progress in the following areas: the quark confinement mechanism dynamical chiral symmetry breaking topologies in QCD instantons monopoles vortices SUSY QCD nonperturbative methods. 1 Nc ladder QCD AdS/CFT QCD phase transition at finite temperature and density quark gluon plasma and so on. For recent topics the book also includes the experimental discovery of the pentaquark particle the newest information on the QGP creation experiments and theoretical progress on the baryonic three quark potential and the high density QCD. The proceedings have been selected for coverage in Index to Scientific Technical Proceedings (ISTP) ISI Proceedings Index to Scientific Technical Proceedings (ISTP) CDROM version ISI Proceedings CC Proceedings Engineering Physical Sciences

Federated Learning Jayakrushna Sahoo, Mariya Ouaisa, Akarsh K. Nair, 2024-09-20 This new book provides an in-depth understanding of federated learning, a new and increasingly popular learning paradigm that decouples data collection and model training via multi-party computation and model aggregation. The volume explores how federated learning integrates AI technologies such as blockchain machine learning IoT edge computing and fog computing systems, allowing multiple collaborators to build a robust machine learning model using a large dataset. It highlights the capabilities and benefits of federated learning, addressing critical issues such as data privacy, data security, data access rights, and access to heterogeneous data. The volume first introduces the general concepts of machine learning and then summarizes the federated learning system setup and its associated terminologies. It

also presents a basic classification of FL the application of FL for various distributed computing scenarios an integrated view of applications of software defined networks etc The book also explores the role of federated learning in the Internet of Medical Things systems as well The book provides a pragmatic analysis of strategies for developing a communication efficient federated learning system It also details the applicability of blockchain with federated learning on IoT based systems It provides an in depth study of FL based intrusion detection systems discussing their taxonomy and functioning and showcasing their superiority over existing systems The book is unique in that it evaluates the privacy and security aspects in federated learning The volume presents a comprehensive analysis of some of the common challenges proven threats and attack strategies affecting FL systems Special coverage on protected shot based federated learning for facial expression recognition is also included This comprehensive book Federated Learning Principles Paradigms and Applications will enable research scholars information technology professionals and distributed computing engineers to understand various aspects of federated learning concepts and computational techniques for real life implementation **Quantum Gravity:**

Proceedings Of The Sixth Moscow Quantum Gravity Seminar V A Berezin,Valery A Rubakov,D V Semikoz,1998-03-09

The Sixth Moscow Quantum Gravity Seminar was a continuation of the series of seminars which has played an important role in the consolidation of the international quantum gravity community and which has greatly affected the development of the field As well as papers presented at the conference this proceedings volume includes the papers of invited speakers who were unable to attend the seminar itself **A Quest for Symmetry** B. Sakita,Keiji Kikkawa,Miguel Angel Virasoro,Spenta R.

Wadia,1999 This important book contains selected research papers of Prof Bunji Sakita Included are his pioneering papers on SU 6 symmetry strong coupling theory string theory supersymmetry and the method of collective coordinates There is also a vivid personal account of his journey in physics The book brings to light some of the key concepts of modern high energy physics **Approximate Circuits** Sherief Reda,Muhammad Shafique,2018-12-05 This book provides readers with a comprehensive state of the art overview of approximate computing enabling the design trade off of accuracy for achieving better power performance efficiencies through the simplification of underlying computing resources The authors describe in detail various efforts to generate approximate hardware systems while still providing an overview of support techniques at other computing layers The book is organized by techniques for various hardware components from basic building blocks to general circuits and systems **Lévy Processes** Ole E. Barndorff-Nielsen,Thomas Mikosch,Sidney I. Resnick,2001-03-30 A L

vy process is a continuous time analogue of a random walk and as such is at the cradle of modern theories of stochastic processes Martingales Markov processes and diffusions are extensions and generalizations of these processes In the past representatives of the L vy class were considered most useful for applications to either Brownian motion or the Poisson process Nowadays the need for modeling jumps bursts extremes and other irregular behavior of phenomena in nature and society has led to a renaissance of the theory of general L vy processes Researchers and practitioners in fields as diverse as

physics meteorology statistics insurance and finance have rediscovered the simplicity of Levy processes and their enormous flexibility in modeling tails dependence and path behavior This volume with an excellent introductory preface describes the state of the art of this rapidly evolving subject with special emphasis on the non Brownian world Leading experts present surveys of recent developments or focus on some most promising applications Despite its special character every topic is aimed at the non specialist keen on learning about the new exciting face of a rather aged class of processes An extensive bibliography at the end of each article makes this an invaluable comprehensive reference text For the researcher and graduate student every article contains open problems and points out directions for future research The accessible nature of the work makes this an ideal introductory text for graduate seminars in applied probability stochastic processes physics finance and telecommunications and a unique guide to the world of Levy processes

Quantum Field Theory and Critical Phenomena Jean Zinn-Justin, 2021-04-15 Introduced as a quantum extension of Maxwell's classical theory quantum electrodynamics has been the first example of a Quantum Field Theory QFT Eventually QFT has become the framework for the discussion of all fundamental interactions at the microscopic scale except possibly gravity More surprisingly it has also provided a framework for the understanding of second order phase transitions in statistical mechanics As this work illustrates QFT is the natural framework for the discussion of most systems involving an infinite number of degrees of freedom with local couplings These systems range from cold Bose gases at the condensation temperature about ten nanokelvin to conventional phase transitions from a few degrees to several hundred and high energy particle physics up to a TeV altogether more than twenty orders of magnitude in the energy scale Therefore this text sets out to present a work in which the strong formal relations between particle physics and the theory of critical phenomena are systematically emphasized This option explains some of the choices made in the presentation A formulation in terms of field integrals has been adopted to study the properties of QFT The language of partition and correlation functions has been used throughout even in applications of QFT to particle physics Renormalization and renormalization group properties are systematically discussed The notion of effective field theory and the emergence of renormalisable theories are described The consequences for fine tuning and triviality issue are emphasized This fifth edition has been updated and fully revised e.g. in particle physics with progress in neutrino physics and the discovery of the Higgs boson The presentation has been made more homogeneous throughout the volume and emphasis has been put on the notion of effective field theory and discussion of the emergence of renormalisable theories

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