

STOCHASTIC QUANTIZATION

P. H. Damgaard
H. Hüffel

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Stochastic Quantization

RJ Shavelson



Stochastic Quantization:

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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 quan tization 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 Thi s book collects the contributions to the NATO Advanced Research WJrkshop on FundaIrental Aspects of Quantum Iheory held at the Centro di Cultura Scientifica Alessandro Volta Villa Olma Carro Italy 2 7 September 1985 The rreeting was dedicated to the rremory of the late pro fessor Piero Caldirola a prominent member of the Physics Departrrtent of the University of r1ilan and a native of Como The aim of the workshop has been to present several recent experi rrental results and theoretical developrrrents concerning the various fa cets of quantum physics The breadth of scope of the rreeting was in accordance with Professor Caldirola s vast scientific interests and fostered communication among experirrental physicists theoretical and mathematical physicists and nEthematicians working in different but related fields Indeed lectu rers 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

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 Lévy 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 Lévy 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 Lévy processes. Researchers and practitioners in fields as diverse as physics meteorology statistics insurance and finance have rediscovered the simplicity of Lévy 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

Cyber-Physical Systems: Modelling and Industrial Application Alla G. Kravets, Alexander A. Bolshakov, Maxim Shcherbakov, 2022-03-26 This book discusses the open questions regarding the modelling of cyber physical systems and their application in different industries The industry needs new approaches to improve its competitiveness The concept of cyber physical systems supports such changes with the need to find new modelling tools becoming a key challenge The book contains five sections covering the following topics: cyber physical systems modelling IoT and signal processing cyber physical systems intelligent control cyber physical systems industrial implementation and the production of the new material for cyber physical systems These approaches on the one hand should ensure the execution of current business processes and on the other hand ensure a quick speed of reactions to changes The target audience of the book are practitioners enterprises representatives scientists PhD and Master students who perform scientific research on modelling and industrial application of cyber physical systems

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 **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

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
































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