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PHASE SPACE PICTURE OF QUANTUM MECHANICS: GROUP THEORETICAL APPROACH

Y S Kim M E Noz



Y. S. Kim, Marilyn E. Noz

<u>Phase Space Picture of Quantum Mechanics</u> Y. S. Kim, Marilyn E. Noz, 1991 This book covers the theory and applications of the Wigner phase space distribution function and its symmetry properties The book explains why the phase space picture of quantum mechanics is needed in addition to the conventional Schr dinger or Heisenberg picture It is shown that the uncertainty relation can be represented more accurately in this picture In addition the phase space picture is shown to be the natural representation of quantum mechanics for modern optics and relativistic quantum mechanics of extended objects

Phase Space Picture Of Quantum Mechanics: Group Theoretical Approach Young Suh Kim, Marilyn E Noz, 1991-03-06 This book covers the theory and applications of the Wigner phase space distribution function and its symmetry properties The book explains why the phase space picture of quantum mechanics is needed in addition to the conventional Schr dinger or Heisenberg picture It is shown that the uncertainty relation can be represented more accurately in this picture In addition the phase space picture is shown to be the natural representation of quantum mechanics for modern optics and relativistic quantum mechanics of extended objects Group Theoretical Methods in Physics M. A. Markov, A. E. Shabad, 1985

Coherent States, Wavelets, and Their Generalizations Syed Twareque Ali, Jean-Pierre Antoine, Jean-Pierre Gazeau, 2013-10-30 This second edition is fully updated covering in particular new types of coherent states the so called Gazeau Klauder coherent states nonlinear coherent states squeezed states as used now routinely in quantum optics and various generalizations of wavelets wavelets on manifolds curvelets shearlets etc In addition it contains a new chapter on coherent state quantization and the related probabilistic aspects As a survey of the theory of coherent states wavelets and some of their generalizations it emphasizes mathematical principles subsuming the theories of both wavelets and coherent states into a single analytic structure. The approach allows the user to take a classical like view of quantum states in physics Starting from the standard theory of coherent states over Lie groups the authors generalize the formalism by associating coherent states to group representations that are square integrable over a homogeneous space a further step allows one to dispense with the group context altogether In this context wavelets can be generated from coherent states of the affine group of the real line and higher dimensional wavelets arise from coherent states of other groups The unified background makes transparent an entire range of properties of wavelets and coherent states Many concrete examples such as coherent states from semisimple Lie groups Gazeau Klauder coherent states coherent states for the relativity groups and several kinds of wavelets are discussed in detail The book concludes with a palette of potential applications from the quantum physically oriented like the quantum classical transition or the construction of adequate states in quantum information to the most innovative techniques to be used in data processing Intended as an introduction to current research for graduate students and others entering the field the mathematical discussion is self contained With its extensive references to the research literature the first edition of the book is already a proven compendium for physicists and mathematicians active in the field

and with full coverage of the latest theory and results the revised second edition is even more valuable **Quantum** Mechanics In Phase Space: An Overview With Selected Papers Thomas L Curtright, David B Fairlie, Cosmas K Zachos, 2005-12-09 Wigner's quasi probability distribution function in phase space is a special Weyl representation of the density matrix It has been useful in describing quantum transport in quantum optics nuclear physics decoherence quantum computing and quantum chaos It is also important in signal processing and the mathematics of algebraic deformation A remarkable aspect of its internal logic pioneered by Groenewold and Moyal has only emerged in the last guarter century it furnishes a third alternative formulation of quantum mechanics independent of the conventional Hilbert space or path integral formulations In this logically complete and self standing formulation one need not choose sides coordinate or momentum space It works in full phase space accommodating the uncertainty principle and it offers unique insights into the classical limit of quantum theory. This invaluable book is a collection of the seminal papers on the formulation with an introductory overview which provides a trail map for those papers an extensive bibliography and simple illustrations suitable for applications to a broad range of physics problems It can provide supplementary material for a beginning graduate course From Micro to Macro Quantum Systems K. Kong Wan, 2006 Traditional quantum theory has a in quantum mechanics very rigid structure making it difficult to accommodate new properties emerging from novel systems. This book presents a flexible and unified theory for physical systems from micro and macro quantum to classical This is achieved by incorporating superselection rules and maximal symmetric operators into the theory. The resulting theory is applicable to classical microscopic quantum and non orthodox mixed quantum systems of which macroscopic quantum systems are examples A unified formalism also greatly facilitates the discussion of interactions between these systems A scheme of quantization by parts is introduced based on the mathematics of selfadjoint and maximal symmetric extensions of symmetric operators to describe point interactions The results are applied to treat superconducting quantum circuits in various configurations This book also discusses various topics of interest such as the asymptotic treatment of quantum state preparation and quantum measurement local observables and local values Schr dinger's cat states in superconducting systems and a path space formulation of quantum mechanics This self contained book is complete with a review of relevant geometric and operator theories for example vector fields and operators symmetric operators and their maximal symmetric extensions direct integrals of Hilbert spaces and operators **Symplectic Quantum Field Theory** Ademir E. Santana, Fagir C. Khanna, Alesandro F. Santos, Ronni G. Gomes Amorim, Sérgio C. Ulhoa, J. David. M. Vianna, 2023-12-21 The present monograph brings to readers as researchers and students of physics and mathematics recent developments in symmetries where the representation space is a symplectic manifold This gives rise to the quantum field theory formulated in through the concept of phase space and associated with the Wigner function a quasi distribution of probability This approach provides information about non classicality of quantum systems describes quantum chaos and is the starting point of the quantum

kinetic theory In this realm abelian and non abelian gauge symmetries are introduced with the concept of quasi amplitude of probability This leads for instance to Symplectic Schr dinger Klein Gordon and Dirac equations dealing with systems in condensed matter and particle physics These achievements are depicted here following a pedagogical model of presentation

Quantum Bioinformatics Four Luigi Accardi, Wolfgang Freudenberg, Masanori Ohya, 2011 The purpose of this proceedings volume is to return to the starting point of bio informatics and quantum information fields that are growing rapidly at present and to seriously attempt mutual interaction between the two with a view to enumerating and solving the many fundamental problems they entail For such a purpose we look for interdisciplinary bridges in mathematics physics information and life sciences in particular research for new paradigm for information science and life science on the basis of Introduction to the Physics of Electron Emission Kevin L. Jensen, 2024-08-19 A practical in depth description of the physics behind electron emission physics and its usage in science and technology Electron emission is both a fundamental phenomenon and an enabling component that lies at the very heart of modern science and technology Written by a recognized authority in the field with expertise in both electron emission physics and electron beam physics An Introduction to Electron Emission provides an in depth look at the physics behind thermal field photo and secondary electron emission mechanisms how that physics affects the beams that result through space charge and emittance growth and explores the physics behind their utilization in an array of applications. The book addresses mathematical and numerical methods underlying electron emission describing where the equations originated how they are related and how they may be correctly used to model actual sources for devices using electron beams Writing for the beam physics and solid state communities the author explores applications of electron emission methodology to solid state statistical and quantum mechanical ideas and concepts related to simulations of electron beams to condensed matter solid state and fabrication communities Provides an extensive description of the physics behind four electron emission mechanisms field photo and secondary and how that physics relates to factors such as space charge and emittance that affect electron beams Introduces readers to mathematical and numerical methods their origins and how they may be correctly used to model actual sources for devices using electron beams Demonstrates applications of electron methodology as well as quantum mechanical concepts related to simulations of electron beams to solid state design and manufacture Designed to function as both a graduate level text and a reference for research professionals Introduction to the Physics of Electron Emission is a valuable learning tool for postgraduates studying quantum mechanics statistical mechanics solid state physics electron transport and beam physics It is also an indispensable resource for academic researchers and professionals who use electron sources model electron emission develop cathode technologies or utilize electron beams **Open Quantum Systems** Subhashish Banerjee, 2018-11-01 This book discusses the elementary ideas and tools needed for open quantum systems in a comprehensive manner The emphasis is given to both the traditional master equation as well as the functional path integral

approaches It discusses the basic paradigm of open systems the harmonic oscillator and the two level system in detail The traditional topics of dissipation and tunneling as well as the modern field of quantum information find a prominent place in the book Assuming a basic background of quantum and statistical mechanics this book will help readers familiarize with the basic tools of open quantum systems Open quantum systems is the study of quantum dynamics of the system of interest taking into account the effects of the ambient environment It is ubiquitous in the sense that any system could be envisaged to be surrounded by its environment which could naturally exert its influence on it Open quantum systems allows for a systematic understanding of irreversible processes such as decoherence and dissipation of the essence in order to have a correct understanding of realistic quantum dynamics and also for possible implementations This would be essential for a possible development of quantum technologies Quantum Optics and Fundamentals of Physics Jan Perina, Z. Hradil, B. Jurco, 2012-12-06 In last years increasing attention has been again devoted to interpretations of quantum theory In the same time interesting quantum optical experiments have been performed using nonlinear optical processes in particular frequency down conversion which provided new information about nature of a photon on the basis of interference and correlation coincidence phenomena Such single photon and twin photon effects of quantum optics provide new point of view of interpretations of quantum theory and new tests of its principles The purpose of this book is to discuss these questions To follow this goal we give brief reviews of principles of quantum theory and of quantum theory of measurement As a fundamental theoretical tool the coherent state technique is adopted based on a general algebraic treatment including the de scription of interaction of radiation and matter Typical quantum behaviour of physical systems is exhibited by nonclassical optical phenomena which can be examined using photon interferences and correlations These phenomena are closely related to violation of various classical inequalities and Bell s in equalities The most important part of this book discusses quantum optical experiments supporting quantum theory This book may be considered as a continuation of previous monographs by one of the authors on Coherence of Light Van Nostrand Reinhold London 1972 second edition D Reidel Dordrecht 1985 and on Quantum Statistics of Linear and Nonlinear Optical Phenomena D Reidel Dordrecht 1984 second edition Kluwer Dordrecht 1991 which may serve as a preparation for reading this book Group Theoretical Methods in Physics G.S. Pogosyan, L.E. Vincent, K.B. Wolf, 2005-05-01. This book discusses group theoretical methods and their applications in physics. chemistry and biology It covers traditional subjects including Lie group and representation theory special functions foundations of quantum mechanics and elementary particle nuclear atomic and molecular physics More recent areas discussed are supersymmetry superstrings and quantum gravity integrability nonlinear systems and quantum chaos semigroups time asymmetry and resonances condensed matter and statistical physics Topics such as linear and nonlinear optics quantum computing discrete systems and signal analysis have only in the last few years become part of the group theorists turf Quantum Communications and Measurement V.P. Belavkin, Osamu Hirota, R.L. Hudson, 2013-06-29 The

International Workshop on Quantum Communications and Measurement was held at the University of Nottingham from July 10 16 1994 It followed the successful meeting on Ouantum Aspects of Optical Communications in Paris in November 1990 This time the conference was devoted to mathematical physical and engineering aspects of quantum noise signal processing and quantum information in open systems quantum channels and optical communications It brought research workers in the experimental and engineering aspects of quantum optics and communication systems into contact with theoreticians working in quantum probability and measurement theory The workshop was attended by more than 130 participants from 22 different countries The largest groups after the UK 31 were from Japan 19 and from Russia 14 The subjects discussed included the mathematical foundations of quantum communication systems experiments and devices the problem of collapse and continuous measurement quantum input and output processes causality and nondemolition observation squeezed states quan tum jumps state diffusion and spontaneous localization filtering and control in quantum systems and new quantum optical phenomena and effects including non classical light These new mathematical and physical ideas were stimulated by recent advances in generation and detection of light with low quantum noise and the development of techniques for trapping a single atom over an extended period of time making it possible to observe individual quantum phenomena at the macroscopic Quantum Mechanics Using Computer Algebra: Includes Sample Programs In C++, Symbolicc++, Maxima, Maple, level And Mathematica (2nd Edition) Willi-hans Steeb, Yorick Hardy, 2010-03-24 Solving problems in quantum mechanics is an essential skill and research activity for physicists mathematicians engineers and others Nowadays the labor of scientific computation has been greatly eased by the advent of computer algebra packages which do not merely perform number crunching but also enable users to manipulate algebraic expressions and equations symbolically For example the manipulations of noncommutative operators differentiation and integration can now be carried out algebraically by the computer algebra package This book collects standard and advanced methods in quantum mechanics and implements them using SymbolicC and Maxima two popular computer algebra packages Throughout the sample programs and their outputs are accompanied with explanatory text of the underlying mathematics and physics explained in detail Selected problems have also been implemented using two other popular packages Mathematica and Maple while some problems are implemented in C Modern developments in quantum theory are covered extensively beyond the standard quantum mechanical techniques The new research topics added to this second edition are entanglement teleportation Berry phase Morse oscillator Magnus expansion wavelets Pauli and Clifford groups coupled Bose Fermi systems super Lie algebras etc Workshop on Harmonic Oscillators D. Han, Y. S. Kim, W. W. Zachary, 1993 Linear Ray and Wave Optics in Phase Space Amalia Torre, 2005-11-11 Ray wave and quantum concepts are central to diverse and seemingly incompatible models of light Each model particularizes a specific manifestation of light and then corresponds to adequate physical assumptions and formal approximations whose domains of applicability are well established Accordingly each model comprises its own set of geometric and dynamic

postulates with the pertinent mathematical means At a basic level the book is a complete introduction to the Wigner optics which bridges between ray and wave optics offering the optical phase space as the ambience and the Wigner function based technique as the mathematical machinery to accommodate between the two opposite extremes of light representation the localized ray of geometrical optics and the unlocalized wave function of wave optics At a parallel level the analogies with other branches of both classical and quantum physics like classical and quantum mechanics quantum optics signal theory as well as magnetic optics are evidenced by pertinent comments and or rigorous mathematics So the Lie algebra and group methods are introduced and explained through the elementary optical systems within both the ray and wave optics contexts the former being related to the symplectic group and the latter to the metaplectic group In a like manner the Wigner function is introduced by following the original issue to individualize a phase space representation of quantum mechanics which is mirrored by the issue to individualize a local frequency spectrum within the signal theory context. The basic analogy with the optics of charged particles inherently underlying the ray optics picture in phase space is also evidenced within the wave optics picture in the Wigner phase space amalgamation of a great deal of contributions having witnessed the phase space picture of optics over the past 30 years introduces abstract concepts through concrete systems hosts of figures and logical diagrams to favour intuition and to introduce mathematics emphasis on the interrelations with quantum optics signal theory and magnetic optics feeds a feeling for genuine issues in higher mathematics and theoretical physics Infinite Dimensional Analysis, Quantum Probability And Related Topics, Qp38 - Proceedings Of The International Conference Noboru Watanabe, Luigi Accardi, Si Si, 2023-10-25 This volume aims to return to the starting point of the fields of infinite dimensional analysis and quantum probability fields that are growing rapidly at present and to seriously attempt mutual interaction between the two with a view to enumerating and solving the many fundamental problems they entail For such a purpose we look for interdisciplinary bridges in mathematics including classical probability and to different branches of physics in particular research for new paradigms for information science on the basis of quantum theory Language, Quantum, Music Maria Luisa Dalla Chiara, Roberto Giuntini, Federico Laudisa, 2013-04-17 A vivid and comprehensive picture of the current state of research in all directions of logic and philosophy of science The book presents a wide combination of papers containing relevant technical results in the foundations of science and papers devoted to conceptual analyses deeply rooted in advanced present day research Audience The volume is attractive both for specialists in foundational questions and scholars interested in general epistemology **Second International Workshop on Squeezed States and Uncertainty Relations** D. Han, Daesoo Han, Y. S. Kim, 1993 **Selected Papers on Phase-space Optics** Markus E. Testorf, Jorge Ojeda-Castañeda, Adolf W. Lohmann, 2006 Phase space methods can be traced back to early contributions in classical geometrical optics yet it is only recently that scientists and engineers began to systematically explore the use of phase space representations for analyzing and synthesizing optical signals This seminal collection of 70 papers dated from 1932 through

2004 describes the spatial properties of optical signals in terms of phase space in the classical optical fields and sketches some of the many interesting applications of phase space methods	

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