PROPAGATOR/GREEN'S FUNCTION IN QUANTUM MECHANICS - SIMPLE DERIVATION OF PROPAGATOR FOR A SIMPLE HARMONIC OSCILLATOR – A TUTORIAL

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Abstract: The derivation of propagator in quantum mechanics is an interesting problem. The propagator for free particle and simple (one-dimensional) harmonic oscillator (SHO) can be obtained in a closed form from the knowledge of the eigenfunctions of the Hamiltonian of respective systems. The propagator of a SHO is derived in an elegant way making use of the bilinear generating function of Hermite functions [1]. In the limit when force constant tends to zero, the propagator of free particle is recovered.

Introduction:

Time dependent Schrodinger equation is given by

$$\left(1\hbar\frac{\partial}{\partial t} - H_0\right)\psi(x;t) = \delta(t). \qquad (1)$$

where $\psi(x;t)$ is the wave function evolving in time and space. H_0 is the time independent Hamiltonian given by $H_0 = \frac{p^2}{2m} + \frac{k}{2}x^2$. $\delta(t)$ **is the Dirac delta function.** (2)

The time independent Hamiltonian H_0 possesses a discrete set of eigenfunctions $\{u_n(x)\}$ [1]

$$u_n(x) = \frac{1}{\sqrt{2^n n!}}\left(\frac{\alpha}{\pi}\right)^{\frac{1}{4}} e^{-\frac{\alpha}{2}x^2} H_n(\sqrt{\alpha}x). \qquad (3)$$

where $\alpha = \frac{m\omega}{\hbar}$, $\hbar$ **is the Planck constant,** $\omega = \sqrt{\frac{k}{m}}$.

$$H_0 u_n(x) = E_n u_n(x). \qquad (4)$$

$$E_n = \left(n + \frac{1}{2}\right)\hbar\omega, \quad n = 0,1,2,3, \qquad (5)$$

The set of functions $\{H_n(\sqrt{\alpha}x)\}$ ***is the Hermite polynomials of order*** n.

The propagator $G(x,x';t) = \sum_0^\infty u_n(x)u_n^*(x')\,e^{-\frac{i}{\hbar}E_n t}$. (6)

When $\lim_{t\to 0} G(x,x';t) \to G(x,x';0) = \delta(x;x') = \delta(x-x')$. (7)

Quantum Statistical Mechanics Greens Fun

Hagen Kleinert

Quantum Statistical Mechanics Greens Fun:

Selected Topics In Statistical Mechanics - 5th International Symposium Nickolai N Bogolubov Jr,A A Logunov,Vladimir G Kadyshevsky,A S Shumovsky,1990-07-13 This symposium is dedicated to Prof N N Bogolubov on the occasion of his 80th birthday Besides including a collection of articles by distinguished speakers this volume also contains a review on the life and scientific activities of Prof N N Bogolubov **Quantum Statistical Mechanics** Leo P. Kadanoff,Gordon Baym,1962 Path Integrals in Quantum Mechanics, Statistics, Polymer Physics, and Financial Markets Hagen Kleinert,2004-03-05 This is the third significantly expanded edition of the comprehensive textbook published in 1990 on the theory and applications of path integrals It is the first book to explicitly solve path integrals of a wide variety of nontrivial quantum mechanical systems in particular the hydrogen atom The solutions have become possible by two major advances The first is a new euclidean path integral formula which increases the restricted range of applicability of Feynman s famous formula to include singular attractive 1 r and 1 r2 potentials The second is a simple quantum equivalence principle governing the transformation of euclidean path integrals to spaces with curvature and torsion which leads to time sliced path integrals that are manifestly invariant under coordinate transformations In addition to the time sliced definition the author gives a perturbative definition of path integrals which makes them invariant under coordinate transformations A consistent implementation of this property leads to an extension of the theory of generalized functions by defining uniquely integrals over products of distributions The powerful Feynman Kleinert variational approach is explained and developed systematically into a variational perturbation theory which in contrast to ordinary perturbation theory produces convergent expansions The convergence is uniform from weak to strong couplings opening a way to precise approximate evaluations of analytically unsolvable path integrals Tunneling processes are treated in detail The results are used to determine the lifetime of supercurrents the stability of metastable thermodynamic phases and the large order behavior of perturbation expansions A new variational treatment extends the range of validity of previous tunneling theories from large to small barriers A corresponding extension of large order perturbation theory also applies now to small orders Special attention is devoted to path integrals with topological restrictions These are relevant to the understanding of the statistical properties of elementary particles and the entanglement phenomena in polymer physics and biophysics The Chern Simons theory of particles with fractional statistics anyons is introduced and applied to explain the fractional quantum Hall effect The relevance of path integrals to financial markets is discussed and improvements of the famous Black Scholes formula for option prices are given which account for the fact that large market fluctuations occur much more frequently than in the commonly used Gaussian distributions The author s other book on Critical Properties of 4 Theories gives a thorough introduction to the field of critical phenomena and develops new powerful resummation techniques for the extraction of physical results from the divergent perturbation expansions Request Inspection Copy **Development and application of a massively parallel KKR Green**

function method for large scale systems Alexander R. Thieß,2013 **Statistical Physics II** R. Kubo,M. Toda,N. Hashitsume,2012-12-06 This volume of Statistical Physics consititutes the second part of Statistical Physics Springer Series in Solid State Science Vols 30 31 and is devoted to nonequilibrium theories of statistical mechanics We start with an intro duction to the stochastic treatment of Brownian motion and then proceed to general problems involved in deriving a physical process from an underlying more basic process Relaxation from nonequilibrium to equilibrium states and the response of a system to an external disturbance form the central problems of nonequilibrium statistical mechanics These problems are treated both phenomenologically and microscopically along the lines of re cent developments Emphasis is placed on fundamental concepts and methods rather than on applications which are too numerous to be treated exhaustively within the limited space of this volume For information on the general aim of this book the reader is referred to the Foreword For further reading the reader should consult the bibliographies although these are not meant to be exhaustive **5th International Symposium on Selected Topics in Statistical Mechanics** Anatolĭ Alekseevich Logunov,1990 This symposium is dedicated to Prof N N Bogolubov on the occasion of his 80th birthday Besides including a collection of articles by distinguished speakers this volume also contains a review on the life and scientific activities of Prof N N Bogolubov

Applied Algorithms Subhas C. Nandy,Rajat K. De,Prosenjit Gupta,2025-04-18 This book LNCS constitutes the refereed proceedings of the Second International Conference on Applied Algorithms ICAA 2025 held in Kolkata India during January 8 10 2025 The 26 full papers and 4 short papers are carefully reviewed and selected from 93 submissions This conference sought original contributions related to the design analysis implementation and experimental evaluation of efficient algorithms and data structures for problems *Advances in Chemical Physics, Volume 22* Ilya Prigogine,Stuart A. Rice,2009-09-08 The Advances in Chemical Physics series provides the chemical physics and physical chemistry fields with a forum for critical authoritative evaluations of advances in every area of the discipline Filled with cutting edge research reported in a cohesive manner not found elsewhere in the literature each volume of the Advances in Chemical Physics series serves as the perfect supplement to any advanced graduate class devoted to the study of chemical physics

Nonequilibrium Statistical Physics Gerd Röpke,2013-03-14 Authored by a well known expert in the field of nonequilibrium statistical physics this book is a coherent presentation of the subject suitable for masters and PhD students as well as postdocs in physics and related disciplines Starting from a general discussion of irreversibility and entropy the method of nonequilibrium statistical operator is presented as a general concept Stochastic processes are introduced as a necessary prerequisite to describe the evolution of a nonequilibrium state Different standard approaches such as master equations kinetic equations and linear response theory are derived after special assumptions This allows for an insight into the problems of nonequilibrium physics a discussion of the limits of the approaches and suggestions for improvements The method of thermodynamic Green s function is outlined that allows for the systematic quantum statistical treatment of many

body systems Applications and typical examples are given as well as fully worked problems Statistical Mechanics E.H. Lieb,2013-04-17 In Statistical Physics one of the ambitious goals is to derive rigorously from statistical mechanics the thermodynamic properties of models with realistic forces Elliott Lieb is a mathematical physicist who meets the challenge of statistical mechanics head on taking nothing for granted and not being content until the purported consequences have been shown by rigorous analysis to follow from the premises The present volume contains a selection of his contributions to the field in particular papers dealing with general properties of Coulomb systems phase transitions in systems with a continuous symmetry lattice crystals and entropy inequalities It also includes work on classical thermodynamics a discipline that despite many claims to the contrary is logically independent of statistical mechanics and deserves a rigorous and unambiguous foundation of its own The articles in this volume have been carefully annotated by the editors **Statistical Mechanics And The Physics Of Many-particle Model Systems** Alexander Leonidovich Kuzemsky,2017-02-24 The book is devoted to the study of the correlation effects in many particle systems It presents the advanced methods of quantum statistical mechanics equilibrium and nonequilibrium and shows their effectiveness and operational ability in applications to problems of quantum solid state theory quantum theory of magnetism and the kinetic theory The book includes description of the fundamental concepts and techniques of analysis following the approach of N N Bogoliubov s school including recent developments It provides an overview that introduces the main notions of quantum many particle physics with the emphasis on concepts and models This book combines the features of textbook and research monograph For many topics the aim is to start from the beginning and to guide the reader to the threshold of advanced researches Many chapters include also additional information and discuss many complex research areas which are not often discussed in other places The book is useful for established researchers to organize and present the advanced material disseminated in the literature The book contains also an extensive bibliography The book serves undergraduate graduate and postgraduate students as well as researchers who have had prior experience with the subject matter at a more elementary level or have used other many particle techniques **Functional Integrals and Collective Excitations** Victor Nikolaevich Popov,1987 This book describes the theory and selected applications of one of the most important mathematical tools used in the theoretical investigation of collective excitations in statistical physics such as occur in superfluidity superconductivity plasma dynamics superradiation and in phase transitions **Progress in Nonequilibrium Green's Functions** Michael Bonitz,Renate Nareyka,Dirk Semkat,2000 Equilibrium and nonequilibrium properties of correlated many body systems are of growing interest in many fields of physics including condensed matter dense plasmas nuclear matter and particles The most powerful and general method which applies equally to all these areas is given by quantum field theory Written by the leading experts and understandable to non specialists this book provides an overview on the basic ideas and concepts of the method of nonequilibrium Green s functions It is complemented by modern applications of the method to a variety of topics such as

optics and transport in dense plasmas and semiconductors correlations bound states and coherence strong field effects and short pulse lasers nuclear matter and QCD Authors include Gordon Bayan Pawel Danielewicz Don DuBois Hartmut Haug Klaus Henneberger Antti Pekka Jauho J rn Kuoll Dietrich Kremp Pavel Lipavsky and Paul C Martin *Physics of Hot Electron Transport in Semiconductors* Chin Sen Ting,1992 This review volume is based primarily on the balance equation approach developed since 1984 It provides a simple and analytical description about hot electron transport particularly in semiconductors with higher carrier density where the carrier carrier collision is much stronger than the single particle scattering The steady state and time dependent hot electron transport thermal noise hot phonon effect the memory effect and other related subjects of charge carriers under strong electric fields are reviewed The application of Zubarev s nonequilibrium statistical operator to hot electron transport and its equivalence to the balance equation method are also presented For semiconductors with very low carrier density the problem can be regarded as a single carrier transport which will be treated non perturbatively by the nonequilibrium Green s function technique and the path integral theory The last part of this book consists of a chapter on the dynamic conductivity and the shot noise suppression of a double carrier resonant tunneling system **Mathematical Physics in One Dimension** Elliott H. Lieb,Daniel C. Mattis,2013-09-17 Mathematical Physics in One Dimension Exactly Soluble Models of Interacting Particles covers problems of mathematical physics with one dimensional analogs The book discusses classical statistical mechanics and phase transitions the disordered chain of harmonic oscillators and electron energy bands in ordered and disordered crystals The text also describes the many fermion problem the theory of the interacting boson gas the theory of the antiferromagnetic linear chains and the time dependent phenomena of many body systems i e classical or quantum mechanical dynamics Physicists and mathematicians will find the book invaluable **Schrödinger Equation** Muhammad Bilal Tahir,Muhammad Sagir,Muhammad Isa Khan,Muhammad Rafique,2024-01-10 Unlock the secrets of the universe with Schr dinger Equation Fundamental Aspects and Potential Applications Delve into the heart of quantum mechanics where matter energy and mathematics intertwine in a dance of profound discovery This essential volume introduces you to the spectral theory of the Schr dinger equation offering a sturdy foundation to explore its enigmatic depths Discover the fascinating world of scattering theory unraveling the intricacies of quantum interactions while the principles of quantization and Feynman path integrals reveal the mechanics of quantum systems With a fresh perspective we explore relative entropy methods and transformation theory unveiling their significance in crafting singular diffusion processes akin to Schr dinger equations This well organized and accessible book caters to a diverse audience from students and researchers to professionals in functional analysis probability theory and quantum dynamics Within these pages you ll uncover the profound wonders of the Schr dinger equation and its vast potential in science engineering and technology Embark on a journey through the quantum cosmos and let your understanding of the universe expand as you explore the quantum realm Welcome to a world where matter and energy dance to the tune of Schr

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Perspectives on Organisms Giuseppe Longo,Maël Montévil,2013-12-13 This authored monograph introduces a genuinely theoretical approach to biology Starting point is the investigation of empirical biological scaling including their variability which is found in the literature e g allometric relationships fractals etc The book then analyzes two different aspects of biological time first a supplementary temporal dimension to accommodate proper biological rhythms secondly the concepts of protension and retention as a means of local organization of time in living organisms Moreover the book investigates the role of symmetry in biology in view of its ubiquitous importance in physics In relation with the notion of extended critical transitions the book proposes that organisms and their evolution can be characterized by continued symmetry changes which accounts for the irreducibility of their historicity and variability The authors also introduce the concept of anti entropy as a measure for the potential of variability being equally understood as alterations in symmetry By this the book provides a mathematical account of Gould s analysis of phenotypic complexity with respect to biological evolution The target audience primarily comprises researchers interested in new theoretical approaches to biology from physical biological or philosophical backgrounds but the book may also be beneficial for graduate students who want to enter this field *Structure of Liquids / Struktur der Flüssigkeiten* H. S. Green,Syu Ono,Sohei Kondo,Frank P. Buff,2012-12-06 135 We first describe the thermodynamic theory of surface tension and adsorption by the method of the dividing surface of GIBBS The use of a dividing surface or its equivalent is indispensable for the treatment of a curved interface as otherwise the concepts of the area and curvature of the interface cannot be pre cisely defined In the case of a plane interface however the concept of the dividing surface is not necessary and a valid alternative exposition has been proposed by GUGGEN HEIM 3J 4J in treating the interface zone as a separate entity of some definite thickness bounded by two mathematical planes We make however little mention of this method since it seems to be of only minor importance in connec tion with the statistical treatment of an interface To avoid any ambiguity the treatment of a spherical interface given in this article is based not on the original method of GIBBS but on the method modified by HILL 8J and KONDO 9 This method however is not applicable to non spherical interfaces which will not be dealt with in this article Although all the relations for a plane interface can be deduced from the cor responding ones for a spherical interface by putting the curvature equal to zero the planar and the spherical cases are considered separately because of the prac tical importance and easy physical visualization of a plane interface

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