#### 1 Semiclassical Approximation

The semiclassical approximation is a powerful approach to evaluating the propagator under the right conditions. Roughly speaking, we want a smooth potential and short de Broglie wavelengths. In the semiclassical approximation, the propagator takes the following form.

$$K_{sc}(x, x', t) = F \exp(\frac{i}{\hbar}S_c(x, x', t)),$$
 (1)

where  $S_c$  is a strictly classical quantity, the action evaluated along the classical path from x to x'. The pre-factor F is an approximation to the path integral for paths other than the classical path. When the semiclassical approximation is working, most of the important physics is in  $S_c$ , not F. The semiclassical approximation is exact, that is not an approximation, for the free particle and the harmonic oscillator, among other examples. It is important to realize that the semiclassical approximation has to do with how close F is to the path integral around the classical path. Any path integral can be written in the form of Eq.(1). The semi-classical approximation then is an approximation to F. The general formula for F in semiclassical approximation is given at the end of these notes.

Classical Path and Classical Action Consider any path x(t') which starts at x' and ends at x. This means x(0) = x', and x(t) = x. Once we have a path, we can calculate the action for that path. This is just

$$S = \int_0^t L(x(t'))dt'.$$

The action certainly depends on the path used to calculate it. Now suppose we go to a nearby path,

$$x(t') \to x(t') + \delta(t')$$

where  $\delta(t')$  is small and vanishes at the endponts,  $\delta(0) = \delta(t) = 0$ . In other words, we are considering only paths which start and end at our two points. It is of interest to see how the action varies to  $O(\delta)$ . Putting  $x(t') \to x(t') + \delta(t')$  into the Lagrangian, we have

$$L \rightarrow \frac{m}{2} \left( \frac{d}{dt} (x + \delta) \right)^2 - V(x + \delta)$$

Expanding, we have

$$L = \frac{m}{2} (\frac{dx}{dt})^2 + m \frac{dx}{dt} \frac{d\delta}{dt} - V(x) - \delta \frac{\partial}{\partial x} V + \dots$$

Putting these terms in the action, we have for  $\delta S$ ,

$$\delta S = \int_0^t dt' (\frac{dx}{dt} \frac{d\delta}{dt} - \delta \frac{\partial}{\partial x} V)$$

# **Semiclabical Approximation In Quantum Mechanics**

Victor P. Maslov, M.V. Fedoriuk

## **Semiclabical Approximation In Quantum Mechanics:**

Semi-Classical Approximation in Quantum Mechanics Victor P. Maslov, M.V. Fedoriuk, 2001-11-30 This volume is concerned with a detailed description of the canonical operator method one of the asymptotic methods of linear mathematical physics The book is in fact an extension and continuation of the authors works 59 60 65 The basic ideas are summarized in the Introduction The book consists of two parts In the first the theory of the canonical operator is develop ed whereas in the second many applications of the canonical operator method to concrete problems of mathematical physics are presented The authors are pleased to express their deep gratitude to S M Tsidilin for his valuable comments THE AUTHORS IX INTRODUCTION 1 Various problems of mathematical and theoretical physics involve partial differential equations with a small parameter at the highest derivative terms For constructing approximate solutions of these equations asymptotic methods have long been used In recent decades there has been a renaissance period of the asymptotic methods of linear mathematical physics. The range of their applicability has expanded the asymptotic methods have been not only continuously used in traditional branches of mathematical physics but also have had an essential impact on the development of the general theory of partial differential equations It appeared recently that there is a unified approach to a number of problems which at first sight looked rather unrelated V.P. Maslov and M.V. Fedroiuk. Semi-classical approximation in quantum mechanics (Kvaziklassičeskoe približenie dlja uravnenij kvantovoj mechaniki, engl.) Transl. from the Russian by J. Niederle and J. Tolar V. P. Maslov, Michail Vasil'evič Fedoriuk, 1981 Semi-classical Approximation in Quantum Mechanics Viktor Pavlovich Maslov, Mikhail Vasil'evich Fedori∏u∏k,1981 **Ouantum Mechanical Irreversibility and Measurement** Paolo Grigolini, 1993 The subject of this book emerged from a series of lectures that the author gave at the Department of Physics of the University of North Texas during the 1992 Spring Semester and reflects the vivacious discussions that he has been having with the students and the co workers attending this course The main conclusion of these discussions was that the major tenet of the conservative physicists that classical physics must be recovered from quantum mechanics by adopting the statistical perspective of Gibbs implying by necessity a Gibbs ensemble of Universes as well as a Gibbs ensemble of observers is not satisfactory. It is actually as unsatisfactory as the dominant approaches to irreversibility The book examines the current approaches to irreversibility in classical and quantum physics and shows that an objective theory of irreversibility does not exist yet and that all the current theories of irreversibility share with quantum mechanics elements of subjectivity making crucial the role played by the observer In addition to the traditional quantum mechanical paradoxes concerning the quantum theory of measurement the book also discusses the new difficulties that the physics of chaos is causing to the widely accepted correspondence principle and suggests that the Boltzmann dream that the fracture between dynamics and thermodynamics might be healed cannot become true within the framework of the current physics and that the establishment of a new physics is necessary for that ambitious purpose to be achieved *Path Integrals*  in Quantum Mechanics, Statistics, Polymer Physics, and Financial Markets Hagen Kleinert, 2004 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 Chem Simons theory of particles with fractional statistics anyohs 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 Semi-classical Approximation in Quantum Path Integrals In Quantum Mechanics, Statistics, Polymer Physics, And Financial Markets Mechanics D., Robert, 1997 (5th Edition) Hagen Kleinert, 2009-05-18 This is the fifth 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 been made possible by two major advances The first is a new euclidean path integral formula which increases the restricted range of applicability of Feynman s time sliced formula to include singular attractive 1 r and 1 r2 potentials. 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gives a perturbative coordinate independent 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 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 results The convergence is uniform from weak to strong couplings opening a way to precise evaluations of analytically unsolvable path integrals in the strong coupling regime where they describe critical phenomena Tunneling processes are treated in detail with applications to the lifetimes of supercurrents the stability of metastable thermodynamic phases and the large order behavior of perturbation expansions A variational treatment extends the range of validity to small barriers A corresponding extension of the large order perturbation theory now also applies to small orders Special attention is devoted to path integrals with topological restrictions needed to understand 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 developed which account for the fact recently experienced in the world markets that large fluctuations occur much more frequently than in Gaussian Semi-classical Analysis For Nonlinear Schrodinger Equations: Wkb Analysis, Focal Points, Coherent States distributions (Second Edition) Remi Carles, 2020-10-05 The second edition of this book consists of three parts The first one is dedicated to the WKB methods and the semi classical limit before the formation of caustics The second part treats the semi classical limit in the presence of caustics in the special geometric case where the caustic is reduced to a point or to several isolated points The third part is new in this edition and addresses the nonlinear propagation of coherent states The three parts are essentially independent Compared with the first edition the first part is enriched by a new section on multiphase expansions in the case of weakly nonlinear geometric optics and an application related to this study concerning instability results for nonlinear Schr dinger equations in negative order Sobolev spaces The third part is an overview of results concerning nonlinear effects in the propagation of coherent states in the case of a power nonlinearity and in the richer case of Hartree like nonlinearities It includes explicit formulas of an independent interest such as generalized Mehler's formula generalized **Introduction to Quantum Mechanics** David Tannor, 2008-02-01 Introduction to Quantum Mechanics is lens transform a completely original manifesto covering quantum mechanics from a time dependent perspective in a unified way from beginning to end This text will change the way people think about and teachabout quantum mechanics in chemistry and physics departments This brilliant new text a completely original manifesto covers quantum mechanics from a time dependent perspective in a unified way from beginning to end Intended for upper level undergraduate and graduate courses in quantum mechanics this text will change the way people think about and teach about quantum mechanics in chemistry and

physics departments Differential Equations and Mathematical Physics Rudi Weikard, Gilbert Weinstein, 2000 This volume contains the proceedings of the 1999 International Conference on Differential Equations and Mathematical Physics The contributions selected for this volume represent some of the most important presentations by scholars from around the world on developments in this area of research The papers cover topics in the general area of linear and nonlinear differential equations and their relation to mathematical physics such as multiparticle Schr dinger operators stability of matter relativity theory fluid dynamics spectral and scattering theory including inverse problems Titles in this series are co Advances in One-Dimensional Wave Mechanics Zhuanggi Cao, Cheng published with International Press Cambridge MA Yin, 2014-01-16 Advances in One Dimensional Wave Mechanics provides a comprehensive description of the motion of microscopic particles in one dimensional arbitrary shaped potentials based on the analogy between Quantum Mechanics and Electromagnetism Utilizing a deeper understanding of the wave nature of matter this book introduces the concept of the scattered sub waves and a series of new analytical results using the Analytical Transfer Matrix ATM method This work will be useful for graduate students majoring in physics mainly in basic quantum theory as well as for academic researchers exploring electromagnetism particle physics and wave mechanics and for experts in the field of optical waveguide and integrated optics Prof Zhuangqi Cao is a Professor of Physics at Shanghai Jiao Tong University China Dr Cheng Yin is a teacher at Jiangsu Key Laboratory of Power Transmission and Distribution Equipment Technology Hohai University China

The Physics of Energy Robert L. Jaffe, Washington Taylor, 2018-01-25 A comprehensive and unified introduction to the science of energy sources uses and systems for students scientists engineers and professionals Theoretical Atomic Physics Harald Friedrich, 2017-05-10 This expanded and updated well established textbook contains an advanced presentation of quantum mechanics adapted to the requirements of modern atomic physics Itincludes topics of current interest such as semiclassical theory chaos atom optics and Bose Einstein condensation in atomic gases In order to facilitate the consolidation of the material covered various problems are included together with complete solutions. The emphasis on theory enables the reader to appreciate the fundamental assumptions underlying standard theoretical constructs and to embark on independentresearch projects The fourth edition of Theoretical Atomic Physics contains anupdated treatment of the sections involving scattering theory and near thresholdphenomena manifest in the behaviour of cold atoms and molecules Special attentionis given to the quantization of weakly bound states just below the continuum thresholdand to low energy scattering and quantum reflection just above Particular emphasisis laid on the fundamental differences between long ranged Coulombic potentials and shorter ranged potentials falling off faster than 1 r2 at large distances r The newsections on tunable near threshold Feshbach resonances and on scattering in two spatial dimensions also address problems relevant for current and future research in the fieldof cold and ultra cold atoms Graduate students and researchers will find this book avaluable resource and comprehensive reference alike Variational Principles in Physics Jean-Louis Basdevant, 2007-03-12

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impossible even for the simplest chemical reactions Therefore different ap proximations have to be used in order to simplify one or the other side of the problem At present the basic approach in the theory of chemical reactivity consists in separating the motions of electrons and nu clei by making use of the Born Oppenheimer adiabatic approximation to obtain electronic energy as an effective potential for nuclear motion If the potential energy surface is known one can calculate in principle the reaction probability for any given initial state of the system The reaction rate is then obtained as an average of the reaction probabilities over all possible initial states of the reacting articles In the different stages of this calculational scheme additional approximations are usually introduced

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## **Table of Contents Semiclabical Approximation In Quantum Mechanics**

- 1. Understanding the eBook Semiclabical Approximation In Quantum Mechanics
  - The Rise of Digital Reading Semiclabical Approximation In Quantum Mechanics
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Semiclabical Approximation In Quantum Mechanics
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Semiclabical Approximation In Quantum Mechanics
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Semiclabical Approximation In Quantum Mechanics

- Personalized Recommendations
- Semiclabical Approximation In Quantum Mechanics User Reviews and Ratings
- Semiclabical Approximation In Quantum Mechanics and Bestseller Lists
- 5. Accessing Semiclabical Approximation In Quantum Mechanics Free and Paid eBooks
  - Semiclabical Approximation In Quantum Mechanics Public Domain eBooks
  - Semiclabical Approximation In Quantum Mechanics eBook Subscription Services
  - Semiclabical Approximation In Quantum Mechanics Budget-Friendly Options
- 6. Navigating Semiclabical Approximation In Quantum Mechanics eBook Formats
  - o ePub, PDF, MOBI, and More
  - Semiclabical Approximation In Quantum Mechanics Compatibility with Devices
  - Semiclabical Approximation In Quantum Mechanics Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Semiclabical Approximation In Quantum Mechanics
  - Highlighting and Note-Taking Semiclabical Approximation In Quantum Mechanics
  - Interactive Elements Semiclabical Approximation In Quantum Mechanics
- 8. Staying Engaged with Semiclabical Approximation In Quantum Mechanics
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Semiclabical Approximation In Quantum Mechanics
- 9. Balancing eBooks and Physical Books Semiclabical Approximation In Quantum Mechanics
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Semiclabical Approximation In Quantum Mechanics
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Semiclabical Approximation In Quantum Mechanics
  - Setting Reading Goals Semiclabical Approximation In Quantum Mechanics
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Semiclabical Approximation In Quantum Mechanics

- Fact-Checking eBook Content of Semiclabical Approximation In Quantum Mechanics
- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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