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The Geometric Phase in Quantum Systems

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Geometric Phase In Quantum Systems

Ho Tak Fung



Geometric Phase In Quantum Systems:

The Geometric Phase in Quantum Systems Arno Bohm, Ali Mostafazadeh, Hiroyasu Koizumi, Qian Niu, Josef Zwanziger, 2013-11-11 Aimed at graduate physics and chemistry students this is the first comprehensive monograph covering the concept of the geometric phase in quantum physics from its mathematical foundations to its physical applications and experimental manifestations It contains all the premises of the adiabatic Berry phase as well as the exact Anandan Aharonov phase It discusses quantum systems in a classical time independent environment time dependent Hamiltonians and quantum systems in a changing environment gauge theory of molecular physics The mathematical methods used are a combination of differential geometry and the theory of linear operators in Hilbert Space As a result the monograph demonstrates how non trivial gauge theories naturally arise and how the consequences can be experimentally observed Readers benefit by gaining a deep understanding of the long ignored gauge theoretic effects of quantum mechanics and how to measure them

Geometric Phases in Classical and Quantum Mechanics Dariusz Chruscinski, Andrzej Jamiolkowski, 2012-12-06 Several well established geometric and topological methods are used in this work in an application to a beautiful physical phenomenon known as the geometric phase This book examines the geometric phase bringing together different physical phenomena under a unified mathematical scheme The material is presented so that graduate students and researchers in applied mathematics and physics with an understanding of classical and quantum mechanics can handle the text

Geometric Phases in Physics Frank Wilczek, Alfred Shapere, 1989 During the last few years considerable interest has been focused on the phase that waves accumulate when the equations governing the waves vary slowly The recent flurry of activity was set off by a paper by Michael Berry where it was found that the adiabatic evolution of energy eigenfunctions in quantum mechanics contains a phase of geometric origin now known as Berry's phase in addition to the usual dynamical phase derived from Schrödinger's equation This observation though basically elementary seems to be quite profound Phases with similar mathematical origins have been identified and found to be important in a startling variety of physical contexts ranging from nuclear magnetic resonance and low Reynolds number hydrodynamics to quantum field theory This volume is a collection of original papers and reprints with commentary on the subject *The Geometric Phase in Quantum Systems*

Arno Bohm, Ali Mostafazadeh, Hiroyasu Koizumi, 2014-01-15 **Physical Effects of Geometric Phases** Qian Niu, Ming-Che Chang, Biao Wu, Di Xiao, Ran Cheng, 2017-08-28 Berry phase has been widely used in condensed matter physics in the past two decades This volume is a timely collection of essential papers in this important field which is highlighted by 2016 Nobel Prize in physics and recent exciting developments in topological matters Each chapter has an introduction which helps readers to understand the reprints that follow Nonlinear Adiabatic Evolution of Quantum Systems Jie Liu, Sheng-Chang Li, Li-Bin Fu, Di-Fa Ye, 2018-09-03 This book systematically introduces the nonlinear adiabatic evolution theory of quantum many body systems The nonlinearity stems from a mean field treatment of the interactions between particles and the

adiabatic dynamics of the system can be accurately described by the nonlinear Schrödinger equation. The key points in this book include the adiabatic condition and adiabatic invariant for nonlinear system, the adiabatic nonlinear Berry phase and the exotic virtual magnetic field which gives the geometric meaning of the nonlinear Berry phase. From the quantum-classical correspondence, the linear and nonlinear comparison and the single particle and interacting many-body difference perspectives, it shows a distinct picture of adiabatic evolution theory. It also demonstrates the applications of the nonlinear adiabatic evolution theory for various physical systems. Using simple models, it illustrates the basic points of the theory which are further employed for the solution of complex problems of quantum theory for many particle systems. The results obtained are supplemented by numerical calculations presented as tables and figures.

Geometric Phases in Classical and Quantum Mechanics D. Chruscinski, A. Kamiolkowski, 2004 **The Geometric Phase in Quantum Systems** Arno Böhm, 2003

Geometric Phase in Composite Quantum Systems, 2004 **Geometric Phase and Spin Transport in Quantum Systems** Chi-yan Teo (Jeffrey), University of Hong Kong, 2007 Geometric Phase and Spin Transport in Quantum Systems, 2007 *Bohmian Mechanics, Open Quantum Systems and Continuous Measurements* Antonio B. Nassar, Salvador Miret-Artés, 2017-03-14. This book shows how Bohmian mechanics overcomes the need for a measurement postulate involving wave function collapse. The measuring process plays a very important role in quantum mechanics. It has been widely analyzed within the Copenhagen approach through the Born and von Neumann postulates with later extension due to L. de Broglie. In contrast, much less effort has been invested in the measurement theory within the Bohmian mechanics framework. The continuous measurement sharp and fuzzy or strong and weak problem is considered here in this framework. The authors begin by generalizing the so-called Mensky approach which is based on restricted path integral through quantum corridors. The measuring system is then considered to be an open quantum system following a stochastic Schrödinger equation. Quantum stochastic trajectories in the Bohmian sense and their role in basic quantum processes are discussed in detail. The decoherence process is thereby described in terms of classical trajectories issuing from the violation of the noncrossing rule of quantum trajectories.

Geometric Phase in Quantum Mechanics Kwun Wan Yuen, 2001 Quantum Systems: New Trends And Methods - Proceedings Of The International Workshop Young Suh Kim, Ilya Davydovich Feranchuk, L. M. Tomilchik, A. Z. Gazizov, 1997-04-11. The purpose of the workshop is to discuss both local and global geometrical and topological effects in quantum systems in the context of the new methods of investigation. The main topics are non-perturbative methods in quantum theory, geometrical and topological effects in quantum dynamics, group theoretical and algebraic methods in the theory of quantum systems, quantum systems in external fields and curved spaces, new results from subnuclear physics to cosmology.

Decoherence Suppression in Quantum Systems 2008 Mikio Nakahara, Robabeh Rahimi, Akira SaiToh, 2010. While innovative ideas and creative works increasingly drive economic success, the historic approach to encouraging innovation and creativity by granting property rights has come under attack by a growing number

of legal theorists and technologists In *Laws of Creation* Ronald Cass and Keith Hylton take on these critics with a vigorous defense of intellectual property law The authors look closely at the IP doctrines that have been developed over many years in patent copyright trademark and trade secret law In each area legislatures and courts have weighed the benefits that come from preserving incentives to innovate against the costs of granting innovators a degree of control over specific markets Over time the authors show a set of rules has emerged that supports wealth creating innovation while generally avoiding overly expansive growth retarding licensing regimes These rules are now under pressure from detractors who claim that changing technology undermines the case for intellectual property rights But Cass and Hylton explain how technological advances only strengthen that case In their view the easier it becomes to copy innovations the harder to detect copies and to stop copying the greater the disincentive to invest time and money in inventions and creative works The authors argue convincingly that intellectual property laws help create a society that is wealthier and inspires more innovation than those of alternative legal systems Ignoring the social value of intellectual property rights and making what others create and nurture eoefree e would be a costly mistake indeed

Nonlinear Adiabatic Evolution of Quantum Systems Jie Liu, 2018 This book systematically introduces the nonlinear adiabatic evolution theory of quantum many body systems The nonlinearity stems from a mean field treatment of the interactions between particles and the adiabatic dynamics of the system can be accurately described by the nonlinear Schrödinger equation The key points in this book include the adiabatic condition and adiabatic invariant for nonlinear system the adiabatic nonlinear Berry phase and the exotic virtual magnetic field which gives the geometric meaning of the nonlinear Berry phase From the quantum classical correspondence the linear and nonlinear comparison and the single particle and interacting many body difference perspectives it shows a distinct picture of adiabatic evolution theory It also demonstrates the applications of the nonlinear adiabatic evolution theory for various physical systems Using simple models it illustrates the basic points of the theory which are further employed for the solution of complex problems of quantum theory for many particle systems The results obtained are supplemented by numerical calculations presented as tables and figures

Geometric Phase in Quantum Mechanics Ho Tak Fung, 2002 **Geometric Phases In Physics** Alfred Shapere, Frank Wilczek, 1989-07-01 During the last few years considerable interest has been focused on the phase that waves accumulate when the equations governing the waves vary slowly The recent flurry of activity was set off by a paper by Michael Berry where it was found that the adiabatic evolution of energy eigenfunctions in quantum mechanics contains a phase of geometric origin now known as Berry's phase in addition to the usual dynamical phase derived from Schrödinger's equation This observation though basically elementary seems to be quite profound Phases with similar mathematical origins have been identified and found to be important in a startling variety of physical contexts ranging from nuclear magnetic resonance and low Reynolds number hydrodynamics to quantum field theory This volume is a collection of original papers and reprints with commentary on the subject

Trends in Quantum Computing Research Susan Shannon, 2006 Quantum

information processing is an exciting new emergent and interdisciplinary field. It combines questions of national security. When will today's public key cryptography be broken to questions of fundamental science. What are the fundamental limits to information processing. It has thrived through the collaboration between the computer engineering, mathematical and physical sciences. It is a field that is challenging our understanding of information, communication, computation, and of the fundamental laws of nature. This book brings together leading research in the field.

Quantum Systems: New Trends And Methods - Proceedings Of The International Workshop Asim Orhan Barut, Ilya Davydovich Feranchuk, L. M. Tomilchik, Yakov M. Shnir, 1995-02-21. Quantum systems in all areas of physics from atomic and molecular physics, nuclear and particle physics to condensed matter and astrophysics provide a rich mosaic of different structures. Yet there are some simple and universal working principles of nature which seem to govern these structures and manifest themselves in various forms as well as likely hypothetical ones which might do the same. For example, the same symmetry group structure occurs again and again in optics, atomic physics and particle physics. Concepts like potential phases, bound states, tunneling, interference, solitons, radiation and resonance are universal. It is for those reasons that a collection of recent works in the many areas of physics on quantum structures and the methods for their investigation is important. The present volume fulfills this task to a large extent. The contributions are wide ranging and yet there is a certain continuity. The main topics, namely non-perturbative methods in quantum theory, quantum nonlinear systems, quantum phases and magnetic monopoles, are covered by longer review articles and are enriched by many related contributions. It is also very appropriate that the corresponding mathematical methods such as those for solving Schrödinger and relativistic wave equations as well as those of algebra and group representations and analysis are included in this volume.

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