

New Phenomena in Condensed Matter Physics: Topological Insulators and Twisted Bilayer Graphene

Tianrun Hou*

Department of Applied Physics, Faculty of Science, The Hong Kong Polytechnic University,
Kowloon, Hong Kong SAR

*Corresponding author: tianrun.hou@connect.polyu.hk

Abstract. Phenomena include the Kosterlitz-Thouless phase transition, fractional quantum Hall effect, and high-temperature superconductivity have driven advances in condensed matter physics, offering a foundation for the investigation of superconductivity and the quantum Hall effect, as well as aiding in the comprehension of the behavior of strongly correlated electrons. The discovery of topological insulators and the preparation of graphene triggered important breakthroughs 20 years ago, leading to novel phenomena include topological superconductivity, the quantum anomalous Hall effect, corner graphene, and quantum spin liquids, which opened new directions in quantum materials research. Through the study of topological superconductors and flat band effects, this paper elucidates the role of topological energy band theory in describing Majorana fermions and their non-abelian statistical properties and reveals the phenomena of superconductivity and Mott's insulating state due to strong electronic interactions in magic-angle cornering graphene. The results show that the theory of topological energy bands and flat band effects can explain the strongly correlated electronic effects, providing theoretical support for understanding the phase transition from Mott insulating states to superconducting states and the Majorana zero mode in quantum computation. This paper emphasizes the importance of topological and two-dimensional materials in the study of strongly correlated electrons, providing guidance for future research.

Keywords: Topological insulators; Twisted bilayer graphene; Flat band; Quantum materials.

1. Introduction

Condensed matter physics is an important branch for studying the collective behavior of microscopic particles in macroscopic systems, and has traditionally made remarkable achievements in solid state physics, especially energy band theory and Landau phase transition theory, which have successfully explained the electronic structure and phase transitions in metals, semiconductors, and insulators. However, with the discovery of new phenomena, the traditional theories show limitations. Topological phenomena like the fractional quantum Hall effect transcend the Landau paradigm, and quantum states based on topological conservation cannot be explained by conventional phase transition theory. In addition, the BCS theory proposed in 1957, while explaining low-temperature superconductivity, fails to cover high-temperature superconductivity phenomena, which require more complex electronic interaction mechanisms. Quantum spin liquids, on the other hand, exhibit rich quantum correlation behavior different from that of conventional solid matter [1].

There are advances in quantum spin liquids and high-temperature superconductivity phenomena. Quantum spin liquid, proposed by PW Anderson in 1973, describes a state of matter without long-range magnetic order in the ground state, in which the spins remain quantum entangled in a "liquid" state. In recent years, the properties of quantum spin liquids have been experimentally verified in two-dimensional and topological materials, such as $\kappa\text{-(ET)}_2\text{Cu}_2(\text{CN})_9$ and $\alpha\text{-RuCl}_3$, where the dynamical features of no magnetic order and spin correlation have been confirmed by techniques such as neutron scattering. Quantum spin liquids are closely related to topological matter states and quantum computation, providing an important platform for studying Majorana fermions and non-abelian statistics [2].

The phenomenon of high-temperature superconductivity refers to the fact that certain materials exhibit superconductivity at relatively high critical temperatures, i.e., the material conducts electricity in a state of zero resistance and complete antimagnetism. In 1986, J. Georg Bednorz and K. Alexander

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Dissipative Phenomena in Condensed Matter Sushanta Dattagupta, Sanjay Puri, 2014-09-01 *Quantum Dissipative Systems* Ulrich Weiss, 2012 Starting from first principles this book introduces the fundamental concepts and methods of dissipative quantum mechanics and explores related phenomena in condensed matter systems Major experimental achievements in cooperation with theoretical advances have brightened the field and brought it to the attention of the general community in natural sciences Nowadays working knowledge of dissipative quantum mechanics is an essential tool for many physicists This book originally published in 1990 and republished in 1999 and and 2008 as enlarged second and third editions delves significantly deeper than ever before into the fundamental concepts methods and applications of quantum dissipative systems This fourth edition provides a self contained and updated account of the quantum mechanics of open systems and offers important new material including the most recent developments The subject matter has been expanded by about fifteen percent Many chapters have been completely rewritten to better cater to both the needs of newcomers to the field and the requests of the advanced readership Two chapters have been added that account for recent progress in the field This book should be accessible to all graduate students in physics Researchers will find this a rich and stimulating source

Quantum Dissipative Systems (Fourth Edition) Ulrich Weiss, 2012-03-05 Starting from first principles this book introduces the fundamental concepts and methods of dissipative quantum mechanics and explores related phenomena in condensed matter systems Major experimental achievements in cooperation with theoretical advances have brightened the field and brought it to the attention of the general community in natural sciences Nowadays working knowledge of dissipative quantum mechanics is an essential tool for many physicists This book originally published in 1990 and republished in 1999 and and 2008 as enlarged second and third editions delves significantly deeper than ever before into the fundamental concepts methods and applications of quantum dissipative systems This fourth edition provides a self contained and updated account of the quantum mechanics of open systems and offers important new material including the most recent developments The subject matter has been expanded by about fifteen percent Many chapters have been completely rewritten to better cater to both the needs of newcomers to the field and the requests of the advanced readership Two chapters have been added that account for recent progress in the field This book should be accessible to all graduate students in physics Researchers will find this a rich and stimulating source

Diffusion Sushanta Dattagupta, 2013-11-12 Within a unifying framework Diffusion Formalism and Applications covers both classical and quantum domains along with numerous applications The author explores the more than two centuries old history of diffusion expertly weaving together a variety of topics from physics mathematics chemistry and biology The book examines the two distinct paradigms of diffusion physical and stochastic introduced by Fourier and Laplace and later unified by Einstein in his groundbreaking work on Brownian motion The author describes the role of diffusion in probability theory and stochastic calculus and discusses topics

in materials science and metallurgy such as defect diffusion radiation damage and spinodal decomposition In addition he addresses the impact of translational rotational diffusion on experimental data and covers reaction diffusion equations in biology Focusing on diffusion in the quantum domain the book also investigates dissipative tunneling Landau diamagnetism coherence to decoherence transition quantum information processes and electron localization Ferrofluids Stefan Odenbach,2008-01-11 Magnetic control of the properties and the flow of liquids is a challenging field for basic research and for applications This book is meant to be both an introduction to and a state of the art review of this topic Written in the form of a set of lectures and tutorial reviews the book addresses the synthesis and characterization of magnetic fluids their hydrodynamical description and their rheological properties The book closes with an account of magnetic drug targeting

Quantum Dissipative Systems (Third Edition) Ulrich Weiss,2008-03-04 Major advances in the quantum theory of macroscopic systems in combination with stunning experimental achievements have brightened the field and brought it to the attention of the general community in natural sciences Today working knowledge of dissipative quantum mechanics is an essential tool for many physicists This book originally published in 1990 and republished in 1999 as an enlarged second edition delves much deeper than ever before into the fundamental concepts methods and applications of quantum dissipative systems including the most recent developments In this third edition 26 chapters from the second edition contain additional material and several chapters are completely rewritten It deals with the phenomena and theory of decoherence relaxation and dissipation in quantum mechanics that arise from the interaction with the environment In so doing a general path integral description of equilibrium thermodynamics and nonequilibrium dynamics is developed *Jack Sabin, Scientist and Friend* ,2022-09-22 Jack Sabin Scientist and Friend Volume 85 in the Advances in Quantum Chemistry series highlights new advances in the field with chapters in this new release including Elastic scattering of electrons and positrons from alkali atoms Dissipative dynamics in many atom systems Shape sensitive Raman scattering from Nano particles Experience in E learning and Artificial Intelligence Structure and Correlation of Charges in a Harmonic Trap Simulation of Molecular Spectroscopy in Binary Solvents Approach for Orbital and Total Mean Excitation Energies of Atoms and A New Generation of Quasiparticle Self Energies Additional sections cover The stopping power of relativistic targets Density functional methods for extended helical systems Inspecting nlm distributions due to charge exchange collisions of bare ions with hydrogen Long lived molecular dications a selected probe for double ionization and much more Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in Advances in Quantum Chemistry serials Updated release includes the latest information on Jack Sabin Scientist and Friend Shock Compression of Condensed Matter--1997 S. C. Schmidt,Dattatraya Purushottam Dandekar,Jerry W. Forbes,1998 Annotation Presents 236 papers from the July August 1997 conference Included are sections on equations of state phase transitions mechanical properties of reactive and nonreactive materials material properties and synthesis optical electrical and laser studies

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Statphys 22 Sushanta Dattagupta, 2005 **Quantum Dissipative Systems (Fifth Edition)** Ulrich Weiss, 2021-09-21 This comprehensive textbook provides the fundamental concepts and methods of dissipative quantum mechanics and related issues in condensed matter physics starting from first principles It deals with the phenomena and theory of decoherence relaxation and dissipation in quantum mechanics that arise from the random exchange of energy with the environment Major theoretical advances in combination with stunning experimental achievements and the arising perspective for quantum computing have brightened the field and brought it to the attention of the general community in natural sciences Expertise in dissipative quantum mechanics is by now beneficial in a broad sphere This book originally published in 1992 and republished

as enlarged and updated second third and fourth edition in 1999 2008 and 2012 dives even deeper into the fundamental concepts methods and applications of quantum dissipation The fifth edition provides a self contained and updated account of the quantum mechanics and quantum statistics of open systems The subject matter of the book has been thoroughly revised to better comply with the needs of newcomers and the demands of the advanced readership Most of the chapters are rewritten to enhance clarity and topicality Four new chapters covering recent developments in the field have been added There are about 600 references This book is intended for use by advanced undergraduate and graduate students in physics and for researchers active in the field They will find the monograph as a rich and stimulating source

Comments on Solid State Physics ,1978 *XXXI International Workshop on Condensed Matter Theories (CMT31)* ,2008 **Progress in Condensed Matter Physics. Festschrift in Honour of Vincenzo Grasso** Guglielmo Mondio, Letteria Silipigni, 2003

Zeitschrift Für Kristallographie ,2004 **Proceedings of the 4th International Symposium Foundations of Quantum Mechanics in the Light of New Technology** Masaru Tsukada, 1993 **Evolution of Order and Chaos** Hermann Haken, 2012-12-06 These proceedings contain the invited lectures presented at the International Symposium on Synergetics at Schloss Elmau in April 1982 This symposium marked the 10 anniversary of symposia on synergetics the first of which was held at Schloss Elmau in 1972 As is now well known these symposia are devoted to the study of the formation of structures in physical systems far from thermal equilibrium as well as in nonphysical systems such as those in biology and sociology While the first proceedings were published by Teubner Publishing Company in 1973 and the second by North Holland Publishing Company in 1974 the subsequent proceedings have been published in the Springer Series in Synergetics I believe that these proceedings give a quite faithful picture of the developments in this new interdisciplinary field over the past decade As H J Queisser recently noted the prefix non which is used quite frequently in modern scientific literature in words such as nonequilibrium nonlinear etc indicates a new development in scientific thinking Indeed this new development was anticipated and given a framework in the introduction of synergetics more than a decade ago

Shock Compression of Condensed Matter - 2005 Michael D. Furnish, Mark Elert, Thomas P. Russell, Carter T. White, 2006-08-24 This book constitutes the Proceedings of the Conference of the American Physical Society Topical Group on Shock Compression of Condensed Matter Baltimore Maryland USA 2005 The volume embodies the most recent research on shock compression of condensed matter and includes 363 plenary invited and contributed papers all peer reviewed Topics include equations of state phase transitions chemical reactions warm dense matter fracture geophysics and planetary science energetic materials optical studies and more

Numerical Methods for Fluid Dynamics VI Michael John Baines, 1998

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



















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