

International Workshop on

QUANTUM SIMULATIONS OF CONDENSED MATTER PHENOMENA

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Los Alamos, NM, USA

Editors

J.D. Doll

J.E. Gubernatis

World Scientific

Quantum Simulations Of Condensed Matter Phenomena

Malgorzata Borowko



Quantum Simulations Of Condensed Matter Phenomena:

Quantum Simulations Of Condensed Matter Phenomena - International Workshop James E Gubernatis, Jimmie D Doll, 1989-12-01 The purpose of this workshop is to present and exchange information on rapidly growing areas in physics and chemistry where quantum simulation techniques are being developed and applied to the study of a variety of condensed matter phenomena These techniques include but are not limited to zero and finite temperature many electron Monte Carlo methods quantum spin systems techniques variational and Green's function Monte Carlo methods exact diagonalization studies of small clusters and studies of real time quantum dynamics by path integral and related approaches

International Workshop on Quantum Simulations of Condensed Matter Phenomena, 8-11 August 1989, Los Alamos, NM, USA J. D. Doll, J. E. Gubernatis, 1990 Quantum Simulations with Photons and Polaritons Dimitris G. Angelakis, 2017-05-03 This book reviews progress towards quantum simulators based on photonic and hybrid light matter systems covering theoretical proposals and recent experimental work Quantum simulators are specially designed quantum computers Their main aim is to simulate and understand complex and inaccessible quantum many body phenomena found or predicted in condensed matter physics materials science and exotic quantum field theories Applications will include the engineering of smart materials robust optical or electronic circuits deciphering quantum chemistry and even the design of drugs Technological developments in the fields of interfacing light and matter especially in many body quantum optics have motivated recent proposals for quantum simulators based on strongly correlated photons and polaritons generated in hybrid light matter systems The latter have complementary strengths to cold atom and ion based simulators and they can probe for example out of equilibrium phenomena in a natural driven dissipative setting This book covers some of the most important works in this area reviewing the proposal for Mott transitions and Luttinger liquid physics with light to simulating interacting relativistic theories topological insulators and gauge field physics The stage of the field now is at a point where on top of the numerous theory proposals experiments are also reported Connecting to the theory proposals presented in the chapters the main experimental quantum technology platforms developed from groups worldwide to realize photonic and polaritonic simulators in the laboratory are also discussed These include coupled microwave resonator arrays in superconducting circuits semiconductor based polariton systems and integrated quantum photonic chips This is the first book dedicated to photonic approaches to quantum simulation reviewing the fundamentals for the researcher new to the field and providing a complete reference for the graduate student starting or already undergoing PhD studies in this area *Quantum Simulations of Condensed Matter Phenomena*, 1990 *Computer Simulation Studies in Condensed-Matter Physics IV* David P. Landau, K.K. Mon, Heinz-Bernd Schüttler, 2012-12-06 The contribution of computer simulation studies to our understanding of proper ties of a wide range of condensed matter systems is now well established The Center for Simulational Physics has been hosting annual workshops with the in tent of bringing together some of the experienced practitioners in the field as well

as relative newcomers in the field to provide a forum for the exchange of ideas and recent results This year's workshop the fourth in the series was held at the University of Georgia February 18-22 1991 These proceedings are a record of the workshop and are published with the goal of timely dissemination of the papers to a wider audience The proceedings are divided into three parts The first part contains invited papers which deal with simulational studies of classical systems and includes an introduction to some new simulation techniques and special purpose computers as well A separate section of the proceedings is devoted to invited papers on quantum systems including new results for strongly correlated electron and quantum spin models believed to be important for the description of high T_c superconductors The contributed presentations comprise the final chapter

Computer Simulation Studies in Condensed-Matter Physics VI David P. Landau, K.K. Mon, Heinz-Bernd Schüttler, 2012-12-06 *Computer Simulation Studies in Condensed Matter Physics VI* provides a broad overview of recent developments in this field Based on the last workshop it presents invited and contributed papers which describe new physical results simulational techniques and ways of interpreting simulational data Both classical and quantum systems are discussed

Computer Simulation Studies in Condensed-Matter Physics IX David P. Landau, Kin-Keung Mon, Heinz-Bernd Schüttler, 2012-12-06 *Computer Simulation Studies in Condensed Matter Physics IX* covers recent developments in this field This workshop was the ninth in this series and was held at the University of Georgia March 4-9 1996 and these proceedings form a record which is published with the goal of timely dissemination of the material to a wider audience This volume is composed of three parts The first section contains invited papers that deal with simulational studies of classical systems The second section of the proceedings is devoted to invited papers on quantum systems including new results for strongly correlated electron and quantum spin models The final section comprises contributed presentations

Phonon Physics The Cutting Edge, 1995-12-13 The first two volumes in this series published twenty years ago contained chapters devoted to anharmonic properties of solids ab initio calculations of phonons in metals and insulators and surface phonons In the intervening years each of these important areas of lattice dynamics has undergone significant developments This volume is therefore concerned with reviewing the current status of these areas Chapter one deals with the path integral quantum Monte Carlo method as a numerical simulation approach and looks at how this has been applied successfully to the determination of low temperature thermodynamic properties of anharmonic crystals and to certain dynamical properties as well Chapter two is concerned with the calculation of static and dynamic properties of anharmonic crystals in the quantum regime Chapter three discusses intrinsic anharmonic localized modes that have been intensively studied recently Two topics ab initio calculations of phonons in metals and surface phonons are dealt with in the next chapter The remaining two chapters are devoted to topics that have not been treated in previous volumes One is phonon transport and the second is phonons in disordered crystals The work described in the six chapters of this volume testifies to the continuing vitality of the field of dynamical properties of solids nearly a century after its founding

Computer Simulation

Studies in Condensed Matter Physics III David P. Landau, K.K. Mon, Heinz-Bernd Schüttler, 2012-12-06 The contribution of computer simulation studies to our understanding of the properties of a wide range of condensed matter systems is now well established The Center for Simulational Physics of the University of Georgia has been hosting a series of annual workshops with the intent of bringing together experienced practitioners in the field as well as relative newcomers to provide a forum for the exchange of ideas and recent results This year's workshop the third in the series was held February 12-16 1990 These proceedings are a record of the workshop and are published with the goal of timely dissemination of the papers to a wider audience The proceedings are divided into four parts The first contains invited papers dealing with simulational studies of classical systems and also includes an introduction to some new simulation techniques A separate section is devoted to invited papers on quantum systems including new results for strongly correlated electron and quantum spin models believed to be important for the description of high T_c superconductors The third part consists of a single invited paper which presents a comprehensive treatment of issues associated with high performance computing including differences in architectures and a discussion of access strategies The contributed papers constitute the final part

Analogue Quantum Simulation Dominik Hangleiter, Jacques Carolan, Karim P. Y. Thébault, 2022-01-21 This book presents fresh insights into analogue quantum simulation It argues that these simulations are a new instrument of science They require a bespoke philosophical analysis sensitive to both the similarities to and the differences with conventional scientific practices such as analogical argument experimentation and classical simulation The analysis situates the various forms of analogue quantum simulation on the methodological map of modern science In doing so it clarifies the functions that analogue quantum simulation serves in scientific practice To this end the authors introduce a number of important terminological distinctions They establish that analogue quantum computation and emulation are distinct scientific practices and lead to distinct forms of scientific understanding The authors also demonstrate the normative value of the computation vs emulation distinction at both an epistemic and a pragmatic level The volume features a range of detailed case studies focusing on i cold atom computation of many body localisation and the Higgs mode ii photonic emulation of quantum effects in biological systems and iii emulation of Hawking radiation in dispersive optical media Overall readers will discover a normative framework to isolate and support the goals of scientists undertaking analogue quantum simulation and emulation This framework will prove useful to both working scientists and philosophers of science interested in cutting edge scientific practice

Annual Reviews Of Computational Physics V Dietrich Stauffer, 1997-06-01 In this fifth volume of the authoritative series the simulation of forest fires flames and hydrodynamics is presented in the first three articles The next two deal with quantum simulations in particular for two dimensions quantum Hall effect and monolayers Biology is connected with the last two articles we learn from biological evolution to complement computer hardware and software with evolware or we simulate immunology

Computational Methods in Surface and Colloid Science Malgorzata Borowko, 2019-04-23 This volume

presents computer simulation methods and mathematical modelling of physical processes used in surface science research It offers in depth analysis of advanced theoretical approaches to behaviours of fluids in contact with porous semiporous and nonporous solid surfaces The book also explores interfacial systems for a wide variety of p

Photonics, Volume 2 David L. Andrews, 2015-01-28 Discusses the basic physical principles underlying the science and technology of nanophotonics its materials and structures This volume presents nanophotonic structures and Materials Nanophotonics is photonic science and technology that utilizes light matter interactions on the nanoscale where researchers are discovering new phenomena and developing techniques that go well beyond what is possible with conventional photonics and electronics The topics discussed in this volume are Cavity Photonics Cold Atoms and Bose Einstein Condensates Displays E paper Graphene Integrated Photonics Liquid Crystals Metamaterials Micro and Nanostructure Fabrication Nanomaterials Nanotubes Plasmonics Quantum Dots Spintronics Thin Film Optics Comprehensive and accessible coverage of the whole of modern photonics Emphasizes processes and applications that specifically exploit photon attributes of light Deals with the rapidly advancing area of modern optics Chapters are written by top scientists in their field Written for the graduate level student in physical sciences Industrial and academic researchers in photonics graduate students in the area College lecturers educators policymakers consultants Scientific and technical libraries government laboratories NIH

From Atom Optics to Quantum Simulation Sebastian Will, 2012-12-15 This thesis explores ultracold quantum gases of bosonic and fermionic atoms in optical lattices The highly controllable experimental setting discussed in this work has opened the door to new insights into static and dynamical properties of ultracold quantum matter One of the highlights reported here is the development and application of a novel time resolved spectroscopy technique for quantum many body systems By following the dynamical evolution of a many body system after a quantum quench the author shows how the important energy scales of the underlying Hamiltonian can be measured with high precision This achievement its application and many other exciting results make this thesis of interest to a broad audience ranging from quantum optics to condensed matter physics A lucid style of writing accompanied by a series of excellent figures make the work accessible to readers outside the rapidly growing research field of ultracold atoms

Manipulating Quantum Systems National Academies of Sciences, Engineering, and Medicine, Division on Engineering and Physical Sciences, Board on Physics and Astronomy, Committee on Decadal Assessment and Outlook Report on Atomic, Molecular, and Optical Science, 2020-09-14 The field of atomic molecular and optical AMO science underpins many technologies and continues to progress at an exciting pace for both scientific discoveries and technological innovations AMO physics studies the fundamental building blocks of functioning matter to help advance the understanding of the universe It is a foundational discipline within the physical sciences relating to atoms and their constituents to molecules and to light at the quantum level AMO physics combines fundamental research with practical application coupling fundamental scientific discovery to rapidly evolving technological advances innovation and

commercialization Due to the wide reaching intellectual societal and economical impact of AMO it is important to review recent advances and future opportunities in AMO physics

Manipulating Quantum Systems An Assessment of Atomic Molecular and Optical Physics in the United States assesses opportunities in AMO science and technology over the coming decade Key topics in this report include tools made of light emerging phenomena from few to many body systems the foundations of quantum information science and technologies quantum dynamics in the time and frequency domains precision and the nature of the universe and the broader impact of AMO science

Ultracold Atoms in Optical Lattices Maciej Lewenstein, Anna Sanpera, Verónica Ahufinger, 2012-03-08 This book explores the physics of atoms frozen to ultralow temperatures and trapped in periodic light structures It introduces the reader to the spectacular progress achieved on the field of ultracold gases and describes present and future challenges in condensed matter physics high energy physics and quantum computation

Computational Approaches in Condensed-Matter Physics Seiji Miyashita, Masatoshi Imada, Hajime Takayama, 2012-12-06 Interacting many body systems are the main subjects of research in theoretical condensed matter physics and they are the source of both the interest and the difficulty in this field In order to understand the macroscopic properties of matter in terms of macroscopic knowledge many analytic and approximate methods have been introduced The contributions to this proceedings volume focus on the most recent developments of computational approaches in condensed matter physics Monte Carlo methods and molecular dynamics simulations applied to strongly correlated classical and quantum systems such as electron systems quantum spin systems spin glasses coupled map systems polymers and other random and complex systems are reviewed Comprising easy to follow introductions to each field covered and also more specialized contributions this proceedings volume explains why computational approaches are necessary and how different fields are related to each other

Conical Intersections in Physics Jonas Larson, Erik Sjöqvist, Patrik Öhberg, 2020-01-31 This concise book introduces and discusses the basic theory of conical intersections with applications in atomic molecular and condensed matter physics Conical intersections are linked to the energy of quantum systems They can occur in any physical system characterized by both slow and fast degrees of freedom such as e.g. the fast electrons and slow nuclei of a vibrating and rotating molecule and are important when studying the evolution of quantum systems controlled by classical parameters Furthermore they play a relevant role for understanding the topological properties of condensed matter systems Conical intersections are associated with many interesting features such as a breakdown of the Born Oppenheimer approximation and the appearance of nontrivial artificial gauge structures similar to the Aharonov Bohm effect Some applications presented in this book include Molecular Systems some molecules in nonlinear nuclear configurations undergo Jahn Teller distortions under which the molecule lower their symmetry if the electronic states belong to a degenerate irreducible representation of the molecular point group Solid State Physics different types of Berry phases associated with conical intersections can be used to detect topologically nontrivial states of matter such as topological insulators Weyl semi

metals as well as Majorana fermions in superconductors Cold Atoms the motion of cold atoms in slowly varying inhomogeneous laser fields is governed by artificial gauge fields that arise when averaging over the fast internal degrees of freedom of the atoms These gauge fields can be Abelian or non Abelian which opens up the possibility to create analogs to various relativistic effects at low speed Dynamical Properties of Solids: Phonon physics, the cutting edge George K. Horton,Alexei A. Maradudin,1995 Strongly Coupled Plasma Physics S. Ichimaru,2012-12-02 Charged particles in dense matter exhibit strong correlations due to the exchange and Coulomb interactions and thus make a strongly coupled plasma Examples in laboratory and astrophysical settings include solid and liquid metals semiconductors charged particles in lower dimensions such as those trapped in interfacial states of condensed matter or beams dense multi ionic systems such a superionic conductors and inertial confinement fusion plasmas The aim of the conference was to elucidate the various physical processes involved in these dense materials The subject areas covered include plasma physics atomic and molecular physics condensed matter physics and astrophysics

Quantum Simulations Of Condensed Matter Phenomena Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Quantum Simulations Of Condensed Matter Phenomena**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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