



# REALIZING CONTROLLABLE QUANTUM STATES

Mesoscopic Superconductivity  
and Spintronics

In the light of quantum computation

Editors

Hideaki Takayanagi  
Junsaku Nitta

# Realizing Controllable Quantum States

**Shuang Cong**



## **Realizing Controllable Quantum States:**

Realizing Controllable Quantum States - Proceedings Of The International Symposium On Mesoscopic Superconductivity And Spintronics - In The Light Of Quantum Computation Junsaku Nitta, Hideaki Takayanagi, 2005-08-02 This volume is a collection of papers from the third meeting of the international symposium on mesoscopic superconductivity and spintronics. Research on quantum information technology has advanced a great deal since the previous meeting. Mesoscopic physics such as spins in nano scale semiconductor structures, micro fabricated superconducting junctions and extraordinary metal contacts have now been not only theoretically but also experimentally established as important solid state elements of quantum information devices. The book also contains some papers on information theory from the viewpoint of quantum algorithms, indicating that further collaboration between physics and computer science promises to produce fruitful results in quantum information technology.

**Controllable Quantum States** Hideaki Takayanagi, 2008 This volume is a collection of papers from the fourth meeting of the International Symposium on Mesoscopic Superconductivity and Spintronics held at NTT Atsugi Japan. Research in these fields has advanced a great deal since the previous meeting largely because these fields have drawn much attention from the viewpoint of new quantum phenomena and quantum information technology. Mesoscopic superconductivity has been developed in new fields such as a ferromagnet superconductor junction, the proximity effect in unconventional superconductors, macroscopic quantum tunneling in high  $T_c$  superconductors, quantum modulation of superconducting junctions and superconducting quantum bits. The book also covers transport and spins in nano scale semiconductor structures such as quantum dots and wires, quantum interference and coherence and order in exotic materials and some papers on quantum algorithm. This book adequately provides an overview of recent progress in mesoscopic superconductivity.

*Towards the Controllable Quantum States* Hideaki Takayanagi, Junsaku Nitta, 2003 The realizations of physical systems whose quantum states can be directly manipulated have been pursued for experiments on fundamental problems in quantum mechanics and implementations of quantum information devices. Micro fabricated superconducting systems and electronic spins are among the most promising candidates. This book contains the newest and most advanced research reports on such materials called Mesoscopic Superconductivity and Spintronics. The former includes superconductor semiconductor hybrid systems, very small Josephson junctions and micron size SQUIDS. The latter includes the control of spin transports in semiconductor heterostructures, nano scale quantum dots and spin injections. Superconductor ferromagnetic metal hybrid structures are covered by both of the topics. The proceedings have been selected for coverage in Index to Scientific Technical Proceedings, ISTP CDROM version, ISI Proceedings.

**Advanced Quantum Communications** Sandor Imre, Laszlo Gyongyosi, 2012-11-27 The book provides an overview of the most advanced quantum informational geometric techniques which can help quantum communication theorists analyze quantum channels such as security or additivity properties. Each section addresses an area of major research of quantum information theory and

quantum communication networks The authors present the fundamental theoretical results of quantum information theory while also presenting the details of advanced quantum communication protocols with clear mathematical and information theoretical background This book bridges the gap between quantum physics quantum information theory and practical engineering

*Informatics in Control, Automation and Robotics* Honghua Tan, 2012-02-01 Session 1 includes 109 papers selected from 2011 3rd International Asia Conference on Informatics in Control Automation and Robotics CAR 2011 held on December 24 25 2011 Shenzhen China This session will act as an international forum for researchers and practitioners interested in the advances in and applications of Intelligent Control Systems It is an opportunity to present and observe the latest research results and ideas in these areas Intelligent control is a rapidly developing complex and challenging field of increasing practical importance and still greater potential Its applications have a solid core in robotics and mechatronics but branch out into areas as diverse as process control automotive industry medical equipment renewable energy and air conditioning So this session will aim to strengthen relationships between industry research laboratories and universities All papers published in session 1 will be peer evaluated by at least two conference reviewers Acceptance will be based primarily on originality and contribution

**Assessment of the Physical Sciences Directorate at the Army Research Office** National Academies of Sciences, Engineering, and Medicine, Division on Engineering and Physical Sciences, Laboratory Assessments Board, Army Research Laboratory Technical Assessment Board, Panel on Review of Extramural Basic Research at the Army Research Laboratory, 2020-07-17 This report summarizes the 2019 findings of the Panel on Review of Extramural Basic Research at the Army Research Laboratory which reviewed the programs at the Army Research Office's Physical Sciences Directorate

*A Controlled Phase Gate Between a Single Atom and an Optical Photon* Andreas Reiserer, 2015-11-14 This thesis reports on major steps towards the realization of scalable quantum networks It addresses the experimental implementation of a deterministic interaction mechanism between flying optical photons and a single trapped atom In particular it demonstrates the nondestructive detection of an optical photon To this end single rubidium atoms are trapped in a three dimensional optical lattice at the center of an optical cavity in the strong coupling regime Full control over the atomic state its position its motion and its electronic state is achieved with laser beams applied along the resonator and from the side When faint laser pulses are reflected from the resonator the combined atom photon state acquires a state dependent phase shift In a first series of experiments this is employed to nondestructively detect optical photons by measuring the atomic state after the reflection process Then quantum bits are encoded in the polarization of the laser pulse and in the Zeeman state of the atom The state dependent phase shift mediates a deterministic universal quantum gate between the atom and one or two successively reflected photons which is used to generate entangled atom photon atom photon photon and photon photon states out of separable input states

*Foundations of Quantum Mechanics in the Light of New Technology* Sachio Ishioka, 2009 This book is the proceedings of the 9th International Symposium on Foundations of

Quantum Mechanics in the Light of New Technology ISQMOCO TOKYO 08 which aims to link the recent advances in technology with fundamental problems in quantum mechanics It also discusses fundamental problems and issues in quantum physics and places a special emphasis on OC Quantum Coherence and DecoherenceOCO The proceedings included a special lecture by Prof C N Yang OC Pseudopotential Method in Cold Atom ResearchOCO and 75 refereed papers covering the wide range of quantum physics cold atoms and molecules spin Hall effect and anomalous Hall effect magnetic domain wall dynamics and spin related phenomena Dirac fermions in condensed matter quantum dot systems entanglement and quantum information processing qubit manipulations mechanical properties of confined geometry precise measurements novel properties of nano systems and fundamental problems in quantum physics The book will not only serve as a good reference for experts on quantum coherence and decoherence but also as an introduction for newcomers to this field **Introduction**

**to Spintronics** Supriyo Bandyopadhyay, Marc Cahay, 2015-09-18 Introduction to Spintronics provides an accessible organized and progressive presentation of the quantum mechanical concept of spin and the technology of using it to store process and communicate information Fully updated and expanded to 18 chapters featuring many new drill problems this edition reflects the explosion of study in spin related physics addressing seven important physical phenomena with spintronic device applications It discusses spintronics without magnetism which allows one to manipulate spin currents by purely electrical means It explores lateral spin orbit interaction and its many nuances as well as the possibility to implement spin polarizers and analyzers using quantum point contacts It also introduces the concept of single domain nanomagnet based computing **Soft Computing in Chemical and Physical Sciences** Kanchan Sarkar, Sankar Prasad

Bhattacharyya, 2017-11-06 This book can be regarded as Soft computing for physicists and chemists self taught It prepares the readers with a solid background of soft computing and how to adapt soft computing techniques to problem solving in physical and chemical research Soft computing methods have been little explored by researchers in physical and chemical sciences primarily because of the absence of books that bridge the gap between the traditional computing paradigm pursued by researchers in science and the new soft computing paradigm that has emerged in computer science This book is the interface between these primary sources and researchers in physics and chemistry Cellular Automata Alejandro

Salcido, 2011-04-11 Modelling and simulation are disciplines of major importance for science and engineering There is no science without models and simulation has nowadays become a very useful tool sometimes unavoidable for development of both science and engineering The main attractive feature of cellular automata is that in spite of their conceptual simplicity which allows an easiness of implementation for computer simulation as a detailed and complete mathematical analysis in principle they are able to exhibit a wide variety of amazingly complex behaviour This feature of cellular automata has attracted the researchers attention from a wide variety of divergent fields of the exact disciplines of science and engineering but also of the social sciences and sometimes beyond The collective complex behaviour of numerous systems which emerge

from the interaction of a multitude of simple individuals is being conveniently modelled and simulated with cellular automata for very different purposes In this book a number of innovative applications of cellular automata models in the fields of Quantum Computing Materials Science Cryptography and Coding and Robotics and Image Processing are presented

**Quantum Teleportation Under Noise** Dongfen Li,2025-06-24 This book offers a deep dive into quantum teleportation and immune noise models providing cutting edge solutions to challenges in noisy quantum communication systems It covers advanced theories and practical methods for building robust high fidelity quantum channels that ensure secure communication even in noisy environments making it a vital resource for researchers and professionals in quantum information science Key topics include quantum teleportation protocols immune noise models quantum information splitting and multi degree of freedom quantum teleportation By developing a unified framework for high fidelity quantum channels the book tackles major issues like entanglement death decoherence and channel capacity limitations It offers solutions to improve quantum state fidelity channel performance and security enhancing the practicality of quantum teleportation in areas like national defense finance and secure communication The book targets academic researchers engineers and professionals in quantum information cryptography and secure communications along with advanced students interested in quantum teleportation in noisy environments

**Integrated Devices for Quantum Information with Polarization Encoded Qubits** Linda Sansoni,2014-06-03 Quantum information science has found great experimental success by exploiting single photons To date however the majority of quantum optical experiments use large scale bulk optical elements bolted down to an optical bench an approach that ultimately limits the complexity and stability of the quantum circuits required for quantum science and technology The realization of complex optical schemes involving large numbers of elements requires the introduction of waveguide technology to achieve the desired scalability stability and miniaturization of the device This thesis reports on surprising findings in the field of integrated devices for quantum information Here the polarization of the photon is shown to offer a suitable degree of freedom for encoding quantum information in integrated systems The most important results concern the quantum interference of polarization entangled photons in an on chip directional coupler the realization of a Controlled NOT CNOT gate operating with polarization qubits the realization of a quantum walk of bosons and fermions in an ordered optical lattice and the quantum simulation of Anderson localization of bosons and fermions simulated by polarization entangled photons in a disordered quantum walk The findings presented in this thesis represent an important step towards the integration of a complete quantum photonic experiment in a chip

**Detection and Interaction of Single Quantum States** Sishen Xie,2023-07-25 This book highlights the findings and achievements in the major research plan Detection and Interaction of Single Quantum States funded by the National Natural Science Foundation of China NSFC The 8 year plan started in 2011 and consisted of 107 projects conducted by Chinese universities and research institutes The book covers the plan s research background achievements and follow up prospects

The plan aimed to tackle one of the major challenges for researchers worldwide to establish precise detection and control of single quantum states in time space energy and momentum The plan integrated precise detection means with the ultrahigh resolution of time space and energy under extreme conditions such as ultrahigh vacuum ultralow temperature high magnetic field and ultrahigh pressure using interdisciplinary research methods in physics chemistry informatics and materials science The book focuses on the exploration of new phenomena theories and concepts of single quantum states describes new techniques and methods of single quantum states and presents the purification and construction of single quantum state systems It is a concise and valuable source of information for researchers in quantum science and graduate students interested in the research field

*Rethinking Causality in Quantum Mechanics* Christina Giarmatzi, 2019-10-21 Causality is central to understanding the mechanisms of nature some event A is the cause of another event B Surprisingly causality does not follow this simple rule in quantum physics due to quantum superposition we might be led to believe that A causes B and that B causes A This idea is not only important to the foundations of physics but also leads to practical advantages a quantum circuit with such indefinite causality performs computationally better than one with definite causality This thesis provides one of the first comprehensive introductions to quantum causality and presents a number of advances It provides an extension and generalization of a framework that enables us to study causality within quantum mechanics thereby setting the stage for the rest of the work This comprises mathematical tools to define causality in terms of probabilities computational tools to prove indefinite causality in an experiment means to experimentally test particular causal structures and finally an algorithm that detects the exact causal structure in an quantum experiment

**Control of Quantum Systems** Shuang Cong, 2014-02-27 Advanced research reference examining the closed and open quantum systems Control of Quantum Systems Theory and Methods provides an insight into the modern approaches to control of quantum systems evolution with a focus on both closed and open dissipative quantum systems The topic is timely covering the newest research in the field and presents and summarizes practical methods and addresses the more theoretical aspects of control which are of high current interest but which are not covered at this level in other text books The quantum control theory and methods written in the book are the results of combination of macro control theory and microscopic quantum system features As the development of the nanotechnology progresses the quantum control theory and methods proposed today are expected to be useful in real quantum systems within five years The progress of the quantum control theory and methods will promote the progress and development of quantum information quantum computing and quantum communication Equips readers with the potential theories and advanced methods to solve existing problems in quantum optics information computing mesoscopic systems spin systems superconducting devices nano mechanical devices precision metrology Ideal for researchers academics and engineers in quantum engineering quantum computing quantum information quantum communication quantum physics and quantum chemistry whose research interests are quantum systems control

**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

**Design of Quantum Teleportation Schemes** Ri-Gui Zhou, Xiao-Xue Zhang, Lin-Tao Du, 2025-05-17 This book offers a design centered approach to quantum teleportation as well as in depth analysis of various quantum teleportation schemes Quantum teleportation a vital component of practical quantum communication technologies serves as a secure and reliable way to transmit confidential information Quantum teleportation relies on the unique physical property of quantum superposition accomplishing the remote transmission of information through unitary transformations and measurements on entangled states combined with classical communication Therefore as one of the safe and reliable means of quantum state transmission between communicating parties quantum teleportation is bound to play a vital role in future quantum communication This book begins with the basics of quantum teleportation before going on to consider various refinements such as controlled bidirectional cyclic symmetric and asymmetric scenarios It goes further investigating a multitude of quantum teleportation schemes in bidirectional controlled bidirectional cyclic bidirectional asymmetric cyclic controlled and noisy environments and conducts detailed performance analyses of these schemes This book is an essential resource for students researchers and professionals in the field of quantum communications

*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     *Issues in General Science and Scientific Theory and Method: 2012 Edition* ,2013-01-10 Issues in General Science and Scientific Theory and Method 2012 Edition is a ScholarlyEditions eBook that delivers timely authoritative and comprehensive information about General Science The editors have built Issues in General Science and Scientific Theory and Method 2012 Edition on the vast information databases of ScholarlyNews You can expect the information about General Science in this eBook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Issues in General Science and Scientific Theory and Method 2012 Edition has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com>

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