

# Macroscopic Quantum Coherence and Quantum Computing

# Macroscopic Quantum Coherence And Quantum Computing

**International Workshop on  
Macroscopic Quantum Coherence and  
Computing, Istituto di Cibernetica**



## **Macroscopic Quantum Coherence And Quantum Computing:**

**Macroscopic Quantum Coherence and Quantum Computing** Dmitri V. Averin, Berardo Ruggiero, Paolo Silvestrini, 2012-12-06 This volume is an outgrowth of the Second International Workshop on Macroscopic Quantum Coherence and Computing held in Napoli Italy in June 2000 This workshop gathered a number of experts from the major Universities and Research Institutions of several countries The choice of the location which recognizes the role and the traditions of Naples in this field guaranteed the participants a stimulating atmosphere The aim of the workshop has been to report on the recent theoretical and experimental results on the macroscopic quantum coherence of macroscopic systems Particular attention was devoted to Josephson devices The correlation with other atomic and molecular systems exhibiting a macroscopic quantum behaviour was also discussed The seminars provided both historical overview and recent theoretical ground on the topic as well as information on new experimental results relative to the quantum computing area The first workshop on this topic held in Napoli in 1998 has been ennobled by important reports on observations of Macroscopic Quantum Coherence in mesoscopic systems The current workshop proposed among many stimulating results the first observations of Macroscopic Quantum Coherence between macroscopically distinct fluxoid states in rf SQUIDS 20 years after the Leggett's proposal to experimentally test the quantum behavior of macroscopic systems Reports on observations of quantum behaviour in molecular and magnetic systems small Josephson devices quantum dots have also been particularly stimulating in view of the realization of several possible q bits

**Macroscopic Quantum Coherence and Computing**, 2005 Quantum computing Quantum phenomena in superconducting devices Phase space and charge space Nanodevices Dissipation and Decoherence in mesoscopic systems Macroscopic quantum coherence in physical systems including NMR Nuclear Magnetic Resonance Quantum dots Ions Magnetic systems BEC Bose Einstein Condensation Quantum Computing in Solid State Systems Berardo Ruggiero, Per Delsing, Carmine Granata, Yuri A. Pashkin, P. Silvestrini, 2006-05-30 Quantum Computation in Solid State Systems discusses experimental implementation of quantum computing for information processing devices in particular observations of quantum behavior in several solid state systems are presented The complementary theoretical contributions provide models of minimizing decoherence in the different systems Most recent theoretical and experimental results on macroscopic quantum coherence of mesoscopic systems as well as the realization of solid state qubits and quantum gates are discussed Particular attention is given to coherence effects in Josephson devices Other solid state systems including quantum dots optical ion and spin devices are also discussed

**International workshop on "Macroscopic quantum coherence and computing"** International Workshop on Macroscopic Quantum Coherence and Computing, Istituto di Cibernetica, 2000

**Quantum Computing and Quantum Bits in Mesoscopic Systems** Anthony Leggett, Berardo Ruggiero, Paolo Silvestrini, 2012-12-06 Quantum information science is a new field of science and technology which requires the collaboration of researchers coming from different fields of physics mathematics

and engineering both theoretical and applied Quantum Computing and Quantum Bits in Mesoscopic Systems addresses fundamental aspects of quantum physics enhancing the connection between the quantum behavior of macroscopic systems and information theory In addition to theoretical quantum physics the book comprehensively explores practical implementation of quantum computing and information processing devices On the experimental side this book reports on recent and previous observations of quantum behavior in several physical systems coherently coupled Bose Einstein condensates quantum dots superconducting quantum interference devices Cooper pair boxes and electron pumps in the context of the Josephson effect In these systems the book discusses all required steps from fabrication through characterization to the final basic implementation for quantum computing

Physics Of Communication, The - Proceedings Of The Xxii Solvay Conference On Physics Ioannis Antoniou,V Sadovnichy,Herbert Walther,2003-08-12 This volume presents the state of the art in the research on new possibilities for communication and computation based on quantum theory and nonlocality as well as related directions and problems It discusses challenging issues decoherence and irreversibility nonlocality and superluminality photonics quantum information and communication quantum computation

Elements of Quantum Optics Brice Scott,2019-09-03 The book gives a broad coverage of the basic elements necessary to understand and carry out research in quantum optics It presents a variety of theoretical tools and important results for two level and semiconductor media many of which could only be found in the original literature of in specialized monographs up to now The text reveals the close connection between many seemingly unrelated topics The book e Quantum Opticse has been written to meet the requirement of the degree and post graduate students The subject matter has been discussed in such a simple way that the students will find no difficult to understand it Most of the examples given in the book have been selected from various university examination papers and the book cover the syllabus of almost all the universities

**Macroscopic Quantum Coherence - Proceedings Of The International Conference** Yogendra Srivastava,E Sassaroli,John Swain,Allan Widom,1998-12-31 As the end of the nineteenth century neared it was clear to many in the physics community that if only Newton s equations plus Maxwell s equations could be solved adequately there would really be nothing very new in physics on a fundamental level Then came relativity and quantum mechanics As we now approach the end of the twentieth century it is clear to many in the physics community that if one could adequately solve somebody s gauge field theory or somebody else s string model then nothing fundamentally new would ever again enter into physics To others in the physics community it is somewhat doubtful that our present physical understanding of the world especially of quantum mechanics has reached such a pinnacle This conference was organized to discuss the present state of affairs in our knowledge both experimental and theoretical of the basic tenets of quantum mechanics Many fields of physics in which quantum mechanics plays a central role were included i atomic and molecular beams ii photon beams iii atomic interference in atom surface physics and atom wire physics iv Bose condensed systems v quantum 1 f noise vi quantum electrodynamics effects in water colloidal systems and

biological systems vii quantum interference in neutrino physics viii periodic in time driven quantum systems ix  
 superconducting quantum circuits and x quantum computer circuit elements The large variety of different topics all of  
 current importance allowed for various viewpoints that are usually not present when conferences devoted to narrower topics  
 are held The cross fertilization of ideas was greatly appreciated by the participants and will be of equal interest to the reader  
 of the proceedings     International Workshop on Superconducting Nano-Electronics Devices Jukka Pekola, Berardo  
 Ruggiero, Paolo Silvestrini, 2012-12-06 SNED Proceedings Naples Italy May 28 June 1 2001     *Toward a Science of*  
*Consciousness III* Stuart R. Hameroff, Alfred W. Kaszniak, David John Chalmers, 1999 Can there be a science of consciousness  
 This issue has been the focus of three landmark conferences sponsored by the University of Arizona in Tucson The first two  
 conferences and books have become touchstones for the field This volume presents a selection of invited papers from the  
 third conference Can there be a science of consciousness This issue has been the focus of three landmark conferences  
 sponsored by the University of Arizona in Tucson The first two conferences and books have become touchstones for the field  
 This volume presents a selection of invited papers from the third conference It showcases recent progress in this maturing  
 field by researchers from philosophy neuroscience cognitive psychology phenomenology and physics It is divided into nine  
 sections the explanatory gap color neural correlates of consciousness vision emotion the evolution and function of  
 consciousness physical reality the timing of conscious experience and phenomenology Each section is preceded by an  
 overview and commentary by the editors Contributors Dick J Bierman Jeffrey Burgdorf A Graham Cairns Smith William H  
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*Computing in Solid State Systems* Berardo Ruggiero, Per Delsing, Carmine Granata, Yuri A. Pashkin, P. Silvestrini, 2008-11-01  
 Quantum Computation in Solid State Systems discusses experimental implementation of quantum computing for information  
 processing devices in particular observations of quantum behavior in several solid state systems are presented The  
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 theoretical and experimental results on macroscopic quantum coherence of mesoscopic systems as well as the realization of  
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 Other solid state systems including quantum dots optical ion and spin devices are also discussed     **New Directions in**  
**Mesoscopic Physics (Towards Nanoscience)** R. Fazio, V.F. Gantmakher, Y. Imry, 2012-12-06 An introduction and

comprehensive survey of the main issues in mesoscopic physics Topics covered include quantum Hall effects transport through quantum wires and dots coherence in mesoscopic systems spintronics disordered systems and solid state quantum computation Some contributions are dedicated to the connections between nanoscience and biophysics and quantum optics Although the topics mentioned have many aspects in common they span a wide area of physics It is therefore especially important to provide a broad view of this rapidly expanding field Thanks to the excellent presentations the book will be found suitable both for young researchers who want to enter the field and stimulating for more experienced scientists

**Exotic States in Quantum Nanostructures** Sarben Sarkar, 2013-11-11 Mesoscopic physics has made great strides in the last few years It is an area of research that is attractive to many graduate students of theoretical condensed matter physics The techniques that are needed to understand it go beyond the conventional perturbative approaches that still form the bulk of the graduate lectures that are given to students Even when the non perturbative techniques are presented they often are presented within an abstract context It is important to have lectures given by experts in the field which present both theory and experiment in an illuminating and inspiring way so that the impact of new methodology on novel physics is clear It is an apt time to have such a volume since the field has reached a level of maturity The pedagogical nature of the articles and the variety of topics makes it an important resource for newcomers to the field The topics range from the newly emerging area of quantum computers and quantum information using Josephson junctions to the formal mathematical methods of conformal field theory which are applied to the understanding of Luttinger liquids Electrons which interact strongly can give rise to non trivial ground states such as superconductivity quantum Hall states and magnetism Both their theory and application are discussed in a pedagogical way for quantum information in mesoscopic superconducting devices skyrmions and magnetism in two dimensional electron gases transport in quantum wires metal insulator transitions and spin electronics

**“Progress in Physics,” vol. 21, no. 1, 2025** Dmitri Rabounski, Pierre Millette, Andreas Ries, Florentin Smarandache, Larissa Borissova, Ebenezer Chifu, This issue of Progress in Physics features a collection of articles on theoretical and experimental physics as well as related topics in mathematics The main theme appears to be a re evaluation of fundamental concepts in physics with several papers discussing alternatives to established theories One article proposes correct solutions for rotating and charged black holes suggesting they have an oblate spheroid shape rather than being perfectly spherical Another paper presents a new cosmology framework based on a Krogh gravity theory that predicts the Hubble redshift curve without needing concepts like dark energy or expansion Other topics include an analysis of fundamental forces from numerical relations a re examination of quantum mechanics in the microworld and the feasibility of non quantum teleportation

**Nonlinear, Tunable and Active Metamaterials** Ilya V. Shadrivov, Mikhail Lapine, Yuri S. Kivshar, 2014-11-01 Metamaterials artificial electromagnetic media achieved by structuring on the subwave length scale were initially suggested for the negative index and superlensing They became a paradigm for engineering electromagnetic space and controlling

propagation of waves The research agenda is now shifting on achieving tuneable switchable nonlinear and sensing functionalities The time has come to talk about the emerging research field of metadevices employing active and tunable metamaterials with unique functionalities achieved by structuring of functional matter on the subwave length scale This book presents the first systematic and comprehensive summary of the reviews written by the pioneers and top class experts in the field of metamaterials It addresses many grand challenges of the cutting edge research for creating smaller and more efficient photonic structures and devices *Handbook of Nanophysics* Klaus D. Sattler, 2010-09-17 Many bottom up and top down techniques for nanomaterial and nanostructure generation have enabled the development of applications in nanoelectronics and nanophotonics *Handbook of Nanophysics Nanoelectronics and Nanophotonics* explores important recent applications of nanophysics in the areas of electronics and photonics Each peer reviewed c *Three Novel Approaches to Deep Space: Interstellar Travel that Transcend the Limitations Imposed by the Rocket Equation* Victor Christianto, Florentin Smarandache , At the time of writing this abstract we read about Betelgeuse star has exploded in the last few days While there are various explanations and interpretations on how that event would have impacted this Earth s inhabitants our interpretation asserts that there are several chains of stars that act to lock this Earth to the 3D realm and the exploded Betelgeuse star can be considered as a signal from heaven that we all Earth inhabitants are allowed to be elevated to 5D consciousness and to explore the Deep Space beyond this solar system Therefore in the present paper it is considered three novel approaches to Deep Space interstellar travel that transcend the limitations imposed by the Tsiolkovsky rocket equation Among other things we explore the possibility of utilizing macro quantum tunneling as an alternative propulsion method By inducing a state of quantum coherence in a macroscopic object it is theorized that it could tunnel through barriers bypassing the need for conventional propulsion systems Furthermore we investigate the potential role of spin supercurrents in facilitating this process The paper delves into the theoretical underpinnings of macroquantum tunneling and spin supercurrents discussing the challenges and opportunities associated with their application to space travel *Fundamentals and Frontiers of the Josephson Effect* Francesco Tafuri, 2019-09-17 This book provides a comprehensive and up to date description of the Josephson effect a topic of never ending interest in both fundamental and applied physics In this volume world renowned experts present the unique aspects of the physics of the Josephson effect resulting from the use of new materials of hybrid architectures and from the possibility of realizing nanoscale junctions These new experimental capabilities lead to systems where novel coherent phenomena and transport processes emerge All this is of great relevance and impact especially when combined with the didactic approach of the book The reader will benefit from a general and modern view of coherent phenomena in weakly coupled superconductors on a macroscopic scale Topics that have been only recently discussed in specialized papers and in short reviews are described here for the first time and organized in a general framework An important section of the book is also devoted to applications with focus on long term future applications In

addition to a significant number of illustrations the book includes numerous tables for comparative studies on technical aspects

**Encyclopedia of Optical Engineering: Pho-Z, pages 2049-3050** Ronald G. Driggers, 2003 Compiled by 330 of the most widely respected names in the electro optical sciences the Encyclopedia is destined to serve as the premiere guide in the field with nearly 2000 figures 560 photographs 260 tables and 3800 equations From astronomy to x ray optics this reference contains more than 230 vivid entries examining the most intriguing technological advances and perspectives from distinguished professionals around the globe The contributors have selected topics of utmost importance in areas including digital image enhancement biological modeling biomedical spectroscopy and ocean optics providing thorough coverage of recent applications in this continually expanding field

**Living Rainbow H<sub>2</sub>O** Mae-Wan Ho, 2012 This book is a unique synthesis of the latest findings in the quantum physics and chemistry of water that will tell you why it is so remarkably fit for life It offers a novel panoramic perspective of cell biology based on water as OC means medium and messageOCO of life This book is a sequel to The Rainbow and The Worm The Physics of Organisms which has remained in a class of its own for nearly 20 years since the publication of the first edition Living Rainbow H<sub>2</sub>O continues the fascinating journey in the author's quest for the meaning of life in science and beyond Like The Rainbow and The Worm the present book will appeal to readers in the arts and humanities as well as scientists not least because the author herself is an occasional artist and poet Great care has been taken to explain terms and concepts for the benefit of the general reader At the same time sufficient scientific details are provided in text boxes for the advanced reader and researcher without interrupting the main story



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