

MACROSCOPIC QUANTUM PHENOMENA AND COHERENCE IN SUPERCONDUCTING NETWORKS

C. Giovannella
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World Scientific

Macroscopic Quantum Phenomena And Coherence In Superconducting Networks

V.V. Schmidt



Macroscopic Quantum Phenomena And Coherence In Superconducting Networks:

Macroscopic Quantum Phenomena And Coherence In Superconducting Networks C Giovannella, Michael Tinkham, 1995-11-16 This volume is a review on the recent progresses done in the understanding of the physics of the superconducting arrays It consists of five sessions All the topical contributions go well beyond those characteristics of the condensed matter physics and offer links to the domains of the nonlinear science complex systems and statistical mechanics

Macroscopic Quantum Phenomena and Coherence in Superconducting Networks Carlo Giovannella, 1995

Macroscopic Quantum Phenomena and Coherence in Superconducting Networks. Frascati, Italy 2-5 March 1995, 1995 *Macroscopic Quantum Phenomena - Proceedings Of The Workshop* Terence D Clark, Robert J Prance, Helen Prance, T P Spiller, 1990-12-13 Macroscopic quantum phenomena MQP occur in a number of different systems The majority of MQP research is done with electromagnetic circuits The occurrence of MQP in alternative systems the effects of the environment on MQP the implications of MQP for measurement theory and quantum mechanics are discussed This proceedings should therefore provide a nice balance of up to date results of MQP research along with discussion of its implications and possible applications *Superconductivity in Networks and Mesoscopic Systems* Carlo Giovannella, Colin J. Lambert, 1998-06 This is a graduate text on functional analysis After presenting the fundamental function spaces and their duals the authors study topics in operator theory and finally develop the theory of distributions up to significant applications such as Sobolev spaces and Dirichlet problems Along the way the reader is presented with a truly remarkable assortment of well formulated and interesting exercises which test the understanding as well as point out many related topics The answers and hints that are not already contained in the statements of the exercises are collected at the end of the book

Nanostructured Superconductors Victor V Moshchalkov, Joachim Fritzsche, 2011-03-28 The main focus of the book is to present the effects of nanostructuring on superconducting critical parameters Optimizing systematically flux and condensate confinement in various nanostructured superconductors ranging from single nano cells to their huge arrays critical fields and currents can be increased up to their theoretical limits thus drastically improving the potential for practical applications of nanostructured superconductors **Models and Phenomenology for Conventional and High-Temperature**

Superconductivity Società italiana di fisica, 1998 The search for microscopic models to explain the many superconducting substances has introduced seminal concepts and techniques in many body physics and in statistical mechanics The complexity of the high temperature superconductors has required a remarkable refinement of experimental techniques in order to allow a reliable characterization of the samples and is partly the reason why so many different microscopic models have so far been proposed This Enrico Fermi Course on Superconductivity was provided an up to date presentation of selected experimental and theoretical theories on the so called conventional superconductivity and on the high temperature superconductivity The attention was focused on those reliable measurements which are expected to provide the theory with

key constraints viz Raman and Infrared Spectroscopy Nuclear Spin Resonance Angular Resolved Photoemission Spectroscopy transport measurements Josephson effect The lectures devoted to the overview of the BCS theory and to the discussion of minimal models and of the crossover from BCS to Bose Einstein condensation may be particularly useful The remaining part of the program was shared between phonon and non phonon based mechanisms On the one hand special emphasis has been devoted to the breakdown of the Migdal theorem and to polaronic theories On the other the book contains an overview of strongly correlated electron theories including magnetic interactions A survey of the physics of vortices completes the theoretical part of the lectures

Advances in Superconductivity X Kozo Osamura, Izumi Hirabayashi, 2013-11-11 The International Symposium on Superconductivity which has been held annually since 1988 is a forum for presenting the most up to date information about a broad range of research and development in superconductivity from fundamental aspects to applications More than 10 years have passed since the discovery of oxide superconductors and since various developments of applications began It may be said that the prospects for application of oxide superconductors recently have opened up Great progress has been made toward practical use for example of the flywheel which uses bulk materials and the high performance cryo cooled magnet made of bismuth wire These were the results of persistent efforts to develop materials from the viewpoint of materials science and engineering Also important is the progress in comprehensive understanding of high temperature superconductivity Unique electronic properties of cuprates such as the non Fermi liquid normal state spin charge separation spin gap and d wave symmetry were discussed at the symposium as were the unique electromagnetic properties resulting from the low dimensionality of cuprates In the field of new superconductors many exotic materials have been discovered since 1986 A decade of work with cuprate superconductors is reviewed in this proceedings and several of the newest materials are presented These papers will be instructive for many researchers and for students who are to enter this field

Stripes and Related Phenomena Antonio Bianconi, Naurang L. Saini, 2006-04-10 The problem of superconductors has been a central issue in Solid State Physics since 1987 After the discovery of superconductivity HTSC in doped perovskites it was realized that the HTSC appears in an unknown complex electronic phase of condensed matter In the early years all theories of HTSC were focused on the physics of a homogeneous 2D metal with large electron-electron correlations or on a 2D polaron gas Only after 1990 a novel paradigm started to grow where this 2D metallic phase is described as an inhomogeneous metal This was the outcome of several experimental evidences of phase separation at low doping Since 1992 a series of conferences on phase separation were organized to allow scientists to get together to discuss the phase separation and related issues Following the discovery by the Rome group in 1992 that the charges move freely mainly in one direction like the water running in the grooves in the corrugated iron foil a new scenario to understand superconductivity in the superconductors was open Because the charges move like rivers the physics of these materials shifts toward the physics of novel mesoscopic heterostructures and complex electronic solids Therefore understanding the striped phases in the

perovskites not only provides an opportunity to understand the anomalous metallic state of cuprate superconductors but also suggests a way to design new materials of technological importance Indeed the stripes are becoming a field of general scientific interest

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

The Physics of Superconductors V.V. Schmidt, 2013-03-09

The author of this book Prof Vadim Vasilievich Schmidt was known in the West as Russian Schmidt Being a talented theoretician and at the same time heading an experimental laboratory in Chernogolovka Vadim Schmidt had a unique talent for explaining complicated physical models and ideas in a simple way One of his favorite sayings was physics is a verbal science The book is based on his introductory course on superconductivity It was published in Russian in 1982 and very soon became undoubtedly the most popular Russian textbook on the physics of superconductors Without losing its generality and depth the book presents key aspects of superconductivity in a very clear and logically structured form As the author said in his preface to the Russian edition he tried to avoid situations when the words it is easy to show conceal tedious and bulky computations In spite of its relatively small volume the book gives a broad overview and covers the major topics of superconductivity Well selected examples are clearly described and help the reader to understand the ideas presented The book even allows an inexperienced reader to quickly get a grasp of a topic Vadim Schmidt was born in 1927 in Moscow His father was a well known politician and the family did not escape the purges of Stalin's time

Quantum Fluctuations S.

Reynaud, E. Giacobino, Jean Zinn-Justin, 1997-06-09 Quantum fluctuations are present in many domains of physics In recent years there has been significant progress in the theoretical and experimental study of these fluctuations in optics electronics

atomic physics metrology relativity and cosmology Quantum fluctuations are now observed and measured in experiments and also modified and manipulated using elaborate techniques These proceedings bring together young scientists who together examine new techniques and the latest research in the field Among the topics covered are the methods used to treat quantum fluctuations in optical systems the recent development of the quantum stochastic methods the interaction of light with nonlinear materials the generation of sub Poisson photon statistics in lasers through the pumping mechanism the problem of measurement of electromagnetic fields the problems of instabilities turbulence and chaos the analysis of phenomena related to gravity inertia and cosmology **Macroscopic Quantum Phenomena** Terry D. Clark,1991

Macroscopic quantum phenomena MQP occur in a number of different systems The majority of MQP research is done with electromagnetic circuits The occurrence of MQP in alternative systems the effects of the environment on MQP the implications of MQP for measurement theory and quantum mechanics are discussed This proceedings should therefore provide a nice balance of up to date results of MQP research along with discussion of its implications and possible applications *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 Energy Research Abstracts ,1990 Condensed Matter Theories Susana Hernandez,John W. Clark, Jr.,2002-01-25 Drawn from the 24th International Workshop on Condensed Matter Theories Buenos Aires Sep 2000 these 45 papers while centered on the concepts and techniques of condensed matter physics also address broad issues of common concern for theorists who apply advanced many particle methods in other areas of physics Five primary topics are covered by the contributions quantum liquids boson condensates strongly correlated electron systems superconductivity and superfluidity and phase transitions Some of examples of specific questions addressed include shot noise of mesoscopic quantum systems heat transport in superlattices transitions from non colinear to conlinear structures in a magnetic multilayer model order disorder transitions in a vortex lattice perturbation theory in the one phase region of an electron ion system and nonlinear dynamics in metal clusters c Book News Inc Scientific and Technical Aerospace Reports ,1995

Superconducting Quantum Electronics Volkmar Kose, 2012-12-06 With the surprising discovery of superconductivity at temperatures above 100 K this field was not only brought into the public eye but also stimulated research in universities scientific institutions and industry thus continuing the fascinating development which began with the discovery of the Josephson effect in the sixties Cryoelectronics has become a special branch of cryophysics and cryotechnics and today plays a prominent role whenever high resolution and precision measurements are required Motivated by this development seven years ago scientists working in cryoelectronics in the Federal Republic of Germany felt the necessity for regular meetings allowing a free exchange of ideas and results achieved Seminars under the title of Kryoelektronische Bauelemente were held for the first time at the Physikalisch Technische Bundesanstalt in Braunschweig in 1982 on the occasion of the 100th anniversary of the birth of Walther Meißner a pioneer in superconductivity Since then meetings have been held every year at different venues in Germany It is now felt that the status of this field necessitates a review of the results of the past a description of the current state of the art and a discussion of future perspectives This book entitled SUPERCONDUCTING QUANTUM ELECTRONICS is a collection of invited lectures and contributions which will inform the reader on the most interesting problems involving fundamentals sensitive detectors and precision metrology being studied by different groups

Josephson Junction and Superconductivity Research William J. McCann, 2007 A Josephson Junction is a type of electronic circuit capable of switching at very high speeds when operated at temperatures approaching absolute zero The Josephson Junction exploits the phenomenon of superconductivity the ability of certain materials to conduct electric current with practically zero resistance This book presents new and important research in superconductivity This book presents leading research from around the world in this exciting field This includes fabrication techniques unconventional superconductors Josephson tunnel junctions Josephson vortex behaviour thermomagnetic shock waves and finite temperature effects

Magnetic Ultrathin Films, Multilayers, and Surfaces-1997: Volume 475 James Tobin, 1997-11-24 Proceedings of the March 1997 symposium the central thrust being the relationship of magnetic properties and device performance to structure at the atomic nanometer and submicron length scales in these systems of reduced dimensionality The 89 contributions cover the following topics synthesis processing and characterization novel applications and approaches for magnetism nano microstructure and magnetic properties structure and properties mixing strain and steps nanoscale magnetic confinement particles and arrays magnetization reversal and domain structure synthesis and characterization synchrotron radiation studies of magnetic materials magneto optical properties effects and measurements magnetic phenomena CMR and tunneling and interlayer coupling and spin polarization Annotation copyrighted by Book News Inc Portland OR

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