



Spectroscopy of High- T_c Superconductors

A Theoretical View

Edited by
N.M. Plakida



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Spectroscopy Of High Tc Superconductors

Christian G. Meyer



Spectroscopy Of High Tc Superconductors:

Spectroscopy of High-Tc Superconductors N.M. Plakida, 2003-03-20 Despite ten years of intensive research many questions remain unanswered concerning the nature of the electronic structure Fermi vs non Fermi liquid and mechanisms of superconductivity Spectroscopy of High Tc Superconductors A Theoretical View provides a current comprehensive review of the experimental results and theoretical interpretations concerning elementary excitation spectra electronic phononic charge and spin fluctuations in high Tc superconductors HTSC It discusses accepted microscopic models that describe the electronic structure of the copper oxide plane the three band model the generalized Emery model the one band Hubbard model different kinds of the t J model and the regular Kondo lattice model and compares them with ARPES experiments Leading Russian researchers also consider experimental results obtained by Raman scattering both by phonons and electronic excitations including magnetic excitations in antiferromagnets in the normal phase on almost all the types of superconducting cuprates The results are treated theoretically with the emphasis on features thought to be related to superconductivity The book also gives an account of the properties of the microwave surface impedance and complex conductivity as functions of temperature common for high quality single crystals YBCO BSCCO TBCCO and BKBO The basics of the muon method and a review of experimental results for superconducting states of different HTSC compounds are also presented By offering a thorough examination of current research in the field this book will appeal to advanced students and researchers working in superconductivity and theoretical condensed matter physics

Spectroscopy of High-Tc Superconductors N.M. Plakida, 2003-03-20 Despite ten years of intensive research many questions remain unanswered concerning the nature of the electronic structure Fermi vs non Fermi liquid and mechanisms of superconductivity Spectroscopy of High Tc Superconductors A Theoretical View provides a current comprehensive review of the experimental results and theoretical interpretation *Studies of High Temperature Superconductors* A. V. Narlikar, 1989 CONTENTS Weak Coupling Theory of High Temperature Superconductors Investigations of a Few Novel Series of Thallium Cuprate Superconductors Showing Possible Change in the Sign of Charge Carriers with Composition Some Structural High Magnetic Field Studies of High Temperature Superconductors Fabrication of Bi Sr Ca Cu Oxide Superconductors with Controlled Numbers of Cu O Layers Characterization of High Temperature Superconductors by High Excitation Spectroscopies Mossbauer Spectroscopy of High Temperature Superconductors RVB Fabrication of 107k Superconducting Films Ion Beam Analysis of High T Superconductors Thermal Conductivity of High Temperature Superconductor A New Theoretical Approach to Electron Pairing And Superconductivity in High T Superconductors High Resolution Polarized X Ray Absorption Spectroscopy Symmetry of the Hole States in High T Superconductors Phase Diagrams in the Y Ba Cu O System Index

Photoemission Spectroscopy on High Temperature Superconductor Wentao Zhang, 2012-08-22 This book mainly focuses on the study of the high temperature superconductor Bi₂Sr₂CaCu₂O₈ by vacuum ultra violet laser based angle resolved

photoemission spectroscopy ARPES A new form of electron coupling has been identified in Bi2212 which occurs in the superconducting state For the first time the Bogoliubov quasiparticle dispersion with a clear band back bending has been observed with two peaks in the momentum distribution curve in the superconducting state at a low temperature Readers will find useful information about the technique of angle resolved photoemission and the study of high temperature superconductors using this technique Dr Wentao Zhang received his PhD from the Institute of Physics at the Chinese Academy of Sciences *Surface Spectroscopy on High Tc Superconductors* Hans J. Bernhoff,1992 **Angle-Resolved Photoemission Spectroscopy on High-Temperature Superconductors** Junfeng He,2016-06-21 This book mainly focuses on the study of the high temperature superconductor Bi2Sr2CaCu2O8 Bi2212 and single layer FeSe film grown on SrTiO3 STO substrate by means of angle resolved photoemission spectroscopy ARPES It provides the first electronic evidence for the origin of the anomalous high temperature superconductivity in single layer FeSe grown on SrTiO3 substrate Two coexisted sharp mode couplings have been identified in superconducting Bi2212 The first ARPES study on single layer FeSe STO films has provided key insights into the electronic origin of superconductivity in this system A phase diagram and electronic indication of high Tc and insulator to superconductor crossover have been established in the single layer FeSe STO films Readers will find essential information on the techniques used and interesting physical phenomena observed by ARPES

High Tc Superconductors A. Bianconi,A. Marcelli,2016-10-27 There are many theories at present which attempt to explain the property of high temperature superconductivity in the new breed of superconducting ceramics however the electronic structure of these materials is not yet fully understood The 29 papers in this work present the results from the use of a wide range of spectroscopic techniques such as Raman nuclear magnetic resonance and photoemission in investigating the electronic structure of the new cuprate perovskites **Physics of High-Temperature Superconductors** Sadamichi Maekawa,Masatoshi Sato,2012-12-06 Advances through carefully conducted quantitative work on well designed high quality materials characterize the present state of high temperature superconductivity research The contributions to this volume present a theoretical and experimental overview of electronic structure and physical properties including anisotropic features of high temperative materials with a focus on cuprates In order to enhance the understanding of the mechanisms of superconductivity at high temperatures this volume is divided into theoretical and experimental parts The contributions to the two parts correspond to each other giving readers involved in either area of research activity a reference to findings of the other On the other hand this book gives young physicists high level information on the present state of research enhanced by tutorial contributions of leading physicists in the field *Physical Properties Of High Temperature Superconductors Iv* Donald M Ginsberg,1994-04-13 This volume contains two chapters of direct interest for applications The magnetic vortex states and transformations and the effects of c axis coupling on the transport properties In addition the isotope effect is reviewed since reliable data on ultra pure samples are now available The lattice vibrations phonons have

been explored extensively by inelastic neutron scattering and infrared absorption and these types of data are reviewed as well. The interesting properties of the superconducting doped fullerenes are described. Some of their most fundamental properties are shared by the superconducting cuprates. This book with its subject index like the earlier three volumes in this series will be found useful both by people entering the field and by workers who are already active in it. **Physical Properties Of High Temperature Superconductors I** Donald M Ginsberg, 1998-09-29 While a great effort has been made to discover new high temperature superconductors a large scale parallel effort has been made to determine the fundamental properties of these fascinating new materials. This is perhaps one of the best books in the field describing these vital properties in an organized and comprehensive manner. The authors are well known for their creative and powerful research on the new superconductors. This volume will be a useful reference for research workers and for graduate students. A subject index is also included for the user's convenience. The Investigation of Scanning Tunneling Microscopy and Spectroscopy on High-Tc Superconductors Yi Yin, 2009 Other work contributing to this thesis is focused on a cuprate superconductor $\text{Bi}_2\text{Y}_{1-x}\text{Pb}_x\text{Si}_2\text{CuO}_{6-\delta}$. With the density of states (DOS) maps at both zero and nonzero magnetic fields a division normalization method is applied to separate two characteristic energy scales. We extract a homogeneous hidden small gap coexisting with an apparent inhomogeneous gap. Compared with a recent experiment performed by Boyer et al the hidden small gap is believed to be a superconducting order and the apparent inhomogeneous gap is referred to the pseudogap phase. Under the magnetic field range in our experiment a vortex liquid state is proposed. This technique can be extended to detect the possible superconducting information in the Nernst state above T_c . Lectures On High Temperature Superconductivity Z Z Gan, Guo Zhen Yang, Z X Zhao, S S Xie, Rushan Han, 1991-10-31 The first part of these proceedings contains the invited lectures which aim to unify and summarize briefly the systematic knowledge and latest developments in the entire spectrum of high T_c superconductivity including the phenomenological and microscopic theory on HTS crystal structures and defects the fabrication of high T_c superconductors physical properties of HTSC tunneling junctions and electronics of HTSC etc. The second part consists of the abstracts of all reports given at the seminar sessions. Analysis of the Gap in High Temperature Superconductors Using Photoemission Spectroscopy Barrett Otis Wells, 1992 *Spectroscopic Properties of Inorganic and Organometallic Compounds* G Davidson, 2007-10-31 Spectroscopic Properties of Inorganic and Organometallic Compounds provides a unique source of information on an important area of chemistry. Divided into sections mainly according to the particular spectroscopic technique used coverage in each volume includes NMR with reference to stereochemistry dynamic systems paramagnetic complexes solid state NMR and Groups 13-18 nuclear quadrupole resonance spectroscopy vibrational spectroscopy of main group and transition element compounds and coordinated ligands and electron diffraction. Reflecting the growing volume of published work in this field researchers will find this Specialist Periodical Report an invaluable source of information on current methods and applications. Specialist Periodical Reports provide systematic and detailed review

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Superconductivity A. Bisarsh, 1999 This book consists of over 600 selected descriptions and abstracts of books book chapters patents and journal articles from throughout the world dealing with this high profile topic Each citation contains complete bibliographic data plus key words The entries are grouped under the headings of Theory of Superconductivity Superconducting Devices Superconducting Properties of Materials Applications of Superconductors Author Index Subject Index

Tunneling Spectroscopy of High-Tc Superconductors Zikri M. Yusof, 1999 *Electron Spectroscopy Study of BSCCO High-temperature Superconductors* Edward Ratner, 1996 *Scientific and Technical Aerospace Reports*, 1992 *The Gap Symmetry and Fluctuations in High-Tc Superconductors* Julien Bok, Guy Deutscher, Davor Pavuna, Stuart A. Wolf, 2006-03-07

Since the discovery in 1986 of high temperature superconductors by J G Bednorz and K A Müller a considerable progress has been made and several important scientific problems have emerged Within this NATO Advanced Study Institute our intention was to focus mainly on the controversial topic of the symmetry of the superconducting gap and given the very short coherence length the role of fluctuations The Institute on The Gap Symmetry and Fluctuations in High Superconductors took place in the Institut d Etudes Scientifiques de Cargèse in Corsica France between 1-13 September 1997 The 110 participants from 18 countries yet 30 nationalities including 23 full time lecturers have spent two memorable weeks in this charming Mediterranean resort All lecturers were asked to prepare pedagogical papers to clearly present the central physical idea behind specific model or experiment The better understanding of physics of high temperature superconductivity is certainly needed to guide the development of applications of these materials in high and weak current devices

X-Ray Absorption and X-Ray Emission Spectroscopy, 2 Volume Set Jeroen A. van Bokhoven, Carlo Lamberti, 2016-03-21 X Ray Absorption and X ray Emission Spectroscopy Theory and Applications During the last two decades remarkable and often spectacular progress has been made in the methodological and instrumental aspects of x ray absorption and emission spectroscopy This progress includes considerable technological improvements in the design and production of detectors especially with the development and expansion of large scale synchrotron reactors All this has resulted in improved analytical performance and new applications as well as in the perspective of a dramatic enhancement in the potential of x ray based analysis techniques for the near future This comprehensive two volume treatise features articles that explain the phenomena and describe examples of X ray absorption and emission applications in several fields including chemistry biochemistry catalysis amorphous and liquid systems synchrotron radiation and surface phenomena Contributors explain the underlying theory how to set up X ray absorption experiments and how to analyze the details of the resulting spectra X Ray Absorption and X ray Emission Spectroscopy Theory and Applications Combines the theory instrumentation

and applications of x ray absorption and emission spectroscopies which offer unique diagnostics to study almost any object in the Universe Is the go to reference book in the subject for all researchers across multi disciplines since intense beams from modern sources have revolutionized x ray science in recent years Is relevant to students postdocurates and researchers working on x rays and related synchrotron sources and applications in materials physics medicine environment geology and biomedical materials

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