

spin-phonon  
coupling

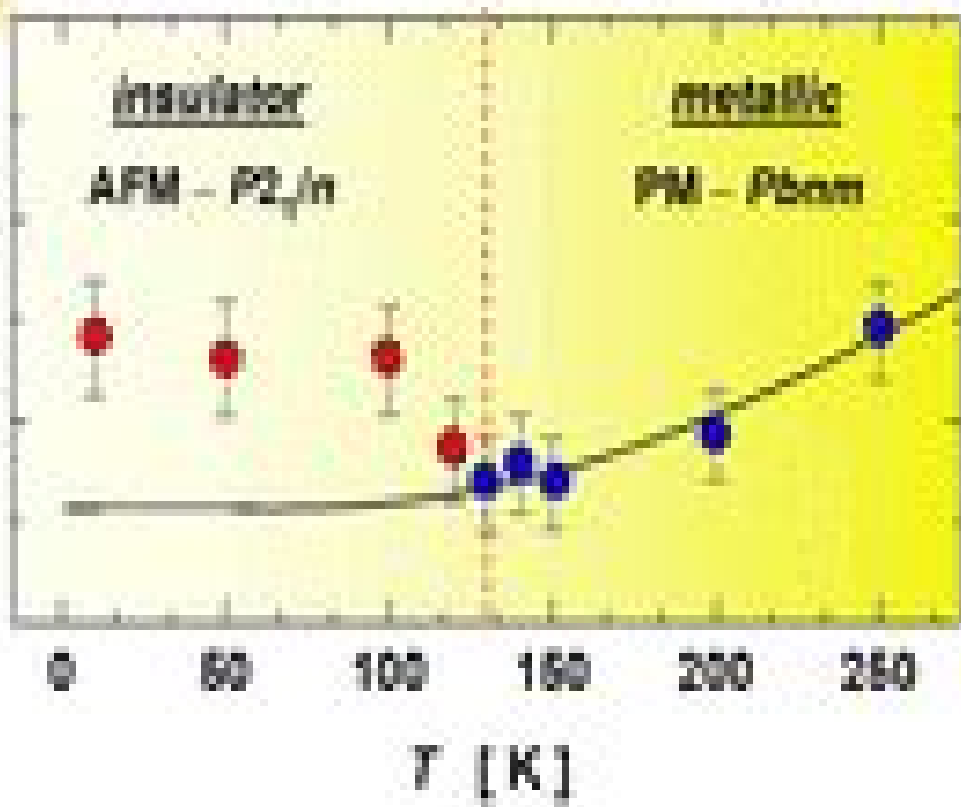


only  
phonons



Ni-O bond  
distance variance  
[ $\text{\AA}^2$ ]

0.004  
0.002



# Phonons Charge And Spin In Correlated Systems

**Karl Alexander Müller, Annette  
Bussmann-Holder**



## **Phonons Charge And Spin In Correlated Systems:**

**Phonons, Charge and Spin in Correlated Systems** Alexandru Macridin, 2003 **Superconductivity in Complex Systems** Karl Alexander Müller, Annette Bussmann-Holder, 2005-06-23 **Underneath the Bragg Peaks** Takeshi Egami, Simon J.L. Billinge, 2003-10-02 Table of contents **Symmetry and Heterogeneity in High Temperature Superconductors** Antonio Bianconi, 2006-08-25 Proceedings of the NATO Advanced Research Workshop on Symmetry and Heterogeneity in High Temperature Superconductors Erice Sicily 4-10 October 2003 **Bosonization and Strongly Correlated Systems** Alexander O. Gogolin, Alexander A. Nersisyan, Alexei M. Tsvelik, 2004-12-16 Detailed account of important technique for researchers and graduate students working in condensed matter and theoretical physics

**Strongly Correlated Systems** Adolfo Avella, Ferdinando Mancini, 2011-11-01 The volume presents for the very first time an exhaustive collection of those modern theoretical methods specifically tailored for the analysis of Strongly Correlated Systems. Many novel materials with functional properties emerging from macroscopic quantum behaviors at the frontier of modern research in physics, chemistry and materials science belong to this class of systems. Any technique is presented in great detail by its own inventor or by one of the world wide recognized main contributors. The exposition has a clear pedagogical cut and fully reports on the most relevant case study where the specific technique showed to be very successful in describing and enlightening the puzzling physics of a particular strongly correlated system. The book is intended for advanced graduate students and post docs in the field as textbook and/or main reference but also for other researchers in the field who appreciate consulting a single but comprehensive source or wishes to get acquainted in as painless as possible way with the working details of a specific technique. **Advances in Superconductivity XII** T. Yamashita, K.

Tanabe, 2013-11-11 The 12th International Symposium on Superconductivity was held in Morioka, Japan, October 17-19, 1999. Convened annually since 1988, the symposium covers the whole field of superconductivity from fundamental physics and chemistry to a variety of applications. At the 12th Symposium, a mini symposium focusing on the two dimensionality of high temperature superconductors or the c-axis transport and a session on vortex physics were organized. There were also many reports on the recent developments of YBCO based coated conductors both in the United States and in Japan, AC losses of wires and tapes, developments of bulk materials with strong flux pinning, the recent progress in thin film and junction technologies and the demonstration of various electronics applications using SQUIDs, microwave devices and single flux quantum SFQ digital devices. This volume is a valuable resource for all those working in the field of superconductivity.

**Metal-to-Nonmetal Transitions** Ronald Redmer, Friedrich Hensel, Bastian Holst, 2010-03-10 Metal to Nonmetal Transitions presents the current research in the field from both physical and chemical perspectives. Discussions of the macroscopic, microscopic and quantum aspects of these transitions make this a useful reference for researchers and students.

**High Performance Computing in Science and Engineering '99** E. Krause, W. Jäger, 2012-12-06 The book contains

reports about the most significant projects from science and engineering of the Federal High Performance Computing Center Stuttgart HLRS They were carefully selected in a peer review process and are showcases of an innovative combination of state of the art modeling novel algorithms and the use of leading edge parallel computer technology The projects of HLRS are using supercomputer systems operated jointly by university and industry and therefore a special emphasis has been put on the industrial relevance of results and methods

*Strongly Correlated Fermi Systems* Miron Amusia,Vasily Shaginyan,2020-07-16 This book focuses on the topological fermion condensation quantum phase transition FCQPT a phenomenon that reveals the complex behavior of all strongly correlated Fermi systems such as heavy fermion metals quantum spin liquids quasicrystals and two dimensional systems considering these as a new state of matter The book combines theoretical evaluations with arguments based on experimental grounds demonstrating that the entirety of very different strongly correlated Fermi systems demonstrates a universal behavior induced by FCQPT In contrast to the conventional quantum phase transition whose physics in the quantum critical region are dominated by thermal or quantum fluctuations and characterized by the absence of quasiparticles the physics of a Fermi system near FCQPT are controlled by a system of quasiparticles resembling the Landau quasiparticles The book discusses the modification of strongly correlated systems under the action of FCQPT representing the missing instability which paves the way for developing an entirely new approach to condensed matter theory and presents this physics as a new method for studying many body objects Based on the authors own theoretical investigations as well as salient theoretical and experimental studies conducted by others the book is well suited for both students and researchers in the field of condensed matter physics

Selected Topics in Superconductivity L. C. Gupta,M. S. Multani,1993 Selected Topics in Superconductivity reflects the high level of activity in the discovery of high Tc superconductivity Out of the 19 articles that it has a fairly good number of them discuss several important and fundamental aspects of the high Tc superconductivity Some of the issues related to the phenomenon of superconductivity in general are discussed in a few of the manuscripts The remaining articles deal with superconductivity in unconventional and highly correlated metals

**Elements of Classical and Quantum Physics** Michele Cini,2024-10-02 This textbook presents an up to date perspective on the fundamental elements of theoretical physics It encompasses analytical mechanics thermodynamics and statistical physics special and general relativity and non relativistic quantum theory thoroughly developing the necessary mathematical methods beyond standard calculus while striving to be as clear explicit and direct as possible The exposition of the theory both in the classical and quantum parts is expanded and reworked compared to the first edition In parallel with the formalism which is explained in full detail several more experimental phenomena and techniques are included and discussed Throughout the emphasis is on the physical meaning of the theory that is the precise way in which the necessary experimental verification occurs or might occur in the future With its comprehensive approach rigorous mathematical treatments and clear physically oriented explanations of principles and

experiments this textbook is an essential resource for advanced undergraduate and graduate students of physics as well as a valuable reference for researchers

*Polarons in Bulk Materials and Systems With Reduced Dimensionality* G. Iadonisi, J. Ranninger, G. De Filippis, 2006-05-22 An enormous theoretical effort has been made to treat electron phonon coupled systems with particular emphasis on Many Body aspects for dense electron systems taking into account continuum as well as lattice polaron effects Treating such aspects of polaron theory has been made possible because of powerful Many Body techniques which include Exact Diagonalization techniques Quantum Monte Carlo approaches Density Matrix renormalization group and Dynamical Mean Field Theory All these advances in polaron theory needed to be accompanied by i an equally important advance in material research which produced many new materials such as the high T<sub>c</sub> cuprates the manganites and nickelates and the fullerenes ii as well as significant advances in the refinement of experimental analysis and in particular the spectroscopic means such as Angle Resolved Photoemission Spectroscopy X Ray Absorption Spectroscopy EXAFS XANES Pulsed Neutron Diffraction measurements allowing to study the local dynamical lattice deformations and optical spectroscopy including time resolved measurements The scope and purpose of this publication is to review both these theoretical and experimental advances which occurred over the last few decades and to introduce the study of such systems where both strong electron electron correlations and large electron phonon coupling strengths play important roles

**High-T<sub>c</sub> Copper Oxide Superconductors and Related Novel Materials** Annette Bussmann-Holder, Hugo Keller, Antonio Bianconi, 2017-03-24 Authored by many of the world's leading experts on high T<sub>c</sub> superconductivity this volume presents a panorama of ongoing research in the field as well as insights into related multifunctional materials The contributions cover many different and complementary aspects of the physics and materials challenges with an emphasis on superconducting materials that have emerged since the discovery of the cuprate superconductors for example pnictides MgB<sub>2</sub> H<sub>2</sub>S and other hydrides Special attention is also paid to interface superconductivity In addition to superconductors the volume also addresses materials related to polar and multifunctional ground states another class of materials that owes its discovery to Prof Müller's ground breaking research on SrTiO<sub>3</sub>

*Structural Dynamics with X-ray and Electron Scattering* Kasra Amini, Arnaud Rouzée, Marc J J Vrakking, 2023-12-20 Since the early 20th century X ray and electron scattering has provided a powerful means by which the location of atoms can be identified in gas phase molecules and condensed matter with sub atomic spatial resolution Scattering techniques can also provide valuable observables of the fundamental properties of electrons in matter such as an electron's spin and its energy In recent years significant technological developments in both X ray and electron scattering have paved the way to time resolved analogues capable of capturing real time snapshots of transient structures undergoing a photochemical reaction Structural Dynamics with X ray and Electron Scattering is a two part book that firstly introduces the fundamental background to scattering theory and photochemical phenomena of interest The second part discusses the latest advances and research results from the application of ultrafast scattering techniques to

imaging the structure and dynamics of gas phase molecules and condensed matter This book aims to provide a unifying platform for X ray and electron scattering *New Theoretical Approaches to Strongly Correlated Systems* Alexei M. Tsvelik, 2001-05-31 For many years the physics of strongly correlated systems was considered a theorists playground right at the border with pure mathematics where physicists from the real world did not venture The time has come however when healthy physics cannot exist without these techniques and results Lectures on selected topics in the theory of strongly correlated systems are here presented by the leading experts in the field Topics covered include a use of the form factor approach in low dimensional systems applications of quantum field theory to disorder and dynamical mean field theory The main divisions of the book deal with I Quantum Critical Points II Strongly Correlated One Dimensional Systems III Strong Correlations and Disorder and IV Dynamical Mean Field Theory **Surface and Interface Science, Volumes 1 and 2** Klaus Wandelt, 2012-04-16 Covering interface science from a novel surface science perspective this unique handbook offers a comprehensive overview of this burgeoning field Eight topical volumes cover basic concepts and methods elemental and composite surfaces solid gas solid liquid and inorganic biological interfaces as well as applications of surface science in nanotechnology materials science and molecular electronics With its broad scope and clear structure it is ideal as a reference for scientists in the field as well as an introduction for newcomers **Physics of Transition Metal Oxides** Sadamichi Maekawa, Takami Tohyama, Stewart Edward Barnes, Sumio Ishihara, Wataru Koshibae, Giniyat Khaliullin, 2004-06-22 The fact that magnetite Fe<sub>3</sub>O<sub>4</sub> was already known in the Greek era as a peculiar mineral is indicative of the long history of transition metal oxides as useful materials The discovery of high temperature superconductivity in 1986 has renewed interest in transition metal oxides High temperature superconductors are all cuprates Why is it To answer to this question we must understand the electronic states in the cuprates Transition metal oxides are also familiar as magnets They might be found stuck on the door of your kitchen refrigerator Magnetic materials are valuable not only as magnets but as electronics materials Manganites have received special attention recently because of their extremely large magnetoresistance an effect so large that it is called colossal magnetoresistance CMR What is the difference between high temperature superconducting cuprates and CMR manganites Elements with incomplete d shells in the periodic table are called transition elements Among them the following eight elements with the atomic numbers from 22 to 29 i e Ti V Cr Mn Fe Co Ni and Cu are the most important These elements make compounds with oxygen and present a variety of properties High temperature superconductivity and CMR are examples Most of the textbooks on magnetism discuss the magnetic properties of transition metal oxides However when one studies magnetism using traditional textbooks one finds that the transport properties are not introduced in the initial stages **Energy Research Abstracts** ,1993 **Journal of the Physical Society of Japan** ,2016

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