



Itinerant Electron Magnetism: Fluctuation Effects

Edited by

D. Wagner, W. Brauneck and A. Solontsov

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Itinerant Electron Magnetism Fluctuation Effects

Nikolai B. Melnikov, Boris I. Reser



Itinerant Electron Magnetism Fluctuation Effects:

Itinerant Electron Magnetism: Fluctuation Effects Dieter Wagner, Wolfgang Brauneck, Alexander Solontsov, 2012-12-06 A summary of recent developments in theoretical and experimental studies of fluctuation effects in itinerant electron magnets focusing on novel physical phenomena soft mode spin fluctuations and zero point effects strong spin anharmonicity magnetic frustrations in metals fluctuation effects in Invar alloys and low dimensional systems All of these may be important for novel high technology applications **Spin Fluctuation Theory of Itinerant Electron Magnetism** Yoshinori

Takahashi, 2013-04-09 This volume shows how collective magnetic excitations determine most of the magnetic properties of itinerant electron magnets Previous theories were mainly restricted to the Curie Weiss law temperature dependence of magnetic susceptibilities Based on the spin amplitude conservation idea including the zero point fluctuation amplitude this book shows that the entire temperature and magnetic field dependence of magnetization curves even in the ground state is determined by the effect of spin fluctuations It also shows that the theoretical consequences are largely in agreement with many experimental observations The readers will therefore gain a new comprehensive perspective of their unified understanding of itinerant electron magnetism *Itinerant-electron Magnetism*, 1977 *Function and Regulation of*

Cellular Systems Andreas Deutsch, 2004-02-20 Current biological research demands the extensive use of sophisticated mathematical methods and computer aided analysis of experiments and data This highly interdisciplinary volume focuses on structural dynamical and functional aspects of cellular systems and presents corresponding experiments and mathematical models The book may serve as an introduction for biologists mathematicians and physicists to key questions in cellular systems which can be studied with mathematical models Recent model approaches are presented with applications in cellular metabolism intra and intercellular signaling cellular mechanics network dynamics and pattern formation In addition applied issues such as tumor cell growth dynamics of the immune system and biotechnology are included **Spin Fluctuation**

Theory of Itinerant Electron Magnetism Yoshinori Takahashi, 2013-04-11 This volume shows how collective magnetic excitations determine most of the magnetic properties of itinerant electron magnets Previous theories were mainly restricted to the Curie Weiss law temperature dependence of magnetic susceptibilities Based on the spin amplitude conservation idea including the zero point fluctuation amplitude this book shows that the entire temperature and magnetic field dependence of magnetization curves even in the ground state is determined by the effect of spin fluctuations It also shows that the theoretical consequences are largely in agreement with many experimental observations The readers will therefore gain a new comprehensive perspective of their unified understanding of itinerant electron magnetism **Spin Fluctuations in**

Itinerant Electron Magnetism Toru Moriya, 2012-12-06 Ferromagnetism of metallic systems especially those including transition metals has been a controversial subject of modern science for a long time This controversy stems from the apparent dual character of the d electrons responsible for magnetism in transition metals i e they are itinerant electrons

described by band theory in their ground state while at finite temperatures they show various properties that have long been attributed to a system consisting of local magnetic moments. The most familiar example of these properties is the Curie Weiss law of magnetic susceptibility obeyed by almost all ferromagnets above their Curie temperatures. At first the problem seemed to be centered around whether the d electrons themselves are localized or itinerant. This question was settled in the 1950s and early 1960s by various experimental investigations in particular by observations of d electron Fermi surfaces in ferromagnetic transition metals. These observations are generally consistent with the results of band calculations. Theoretical investigations since then have concentrated on explaining this dual character of d electron systems taking account of the effects of electron-electron correlations in the itinerant electron model. The problem in physical terms is to study the spin density fluctuations which are neglected in the mean field or one electron theory and their influence on the physical properties.

The Kyoto Manifesto for Global Economics Stomu Yamash'ta, Tadashi Yagi, Stephen Hill, 2018-02-19. This book confronts the failings of current global economics to deliver the equity, sustainability and community empowerment which humanity now needs to handle a troubled future. The volume proposes an economy built from our society not the other way around. The Kyoto Manifesto was built layer by layer over a period of 4 years based on broad ranging international symposia held in Kyoto between 2014 and 2017 hosted by the Center for the Creative Economy Doshisha University. Not stopping at theory and untested ideas however the Manifesto proposes practical action that will make a difference including in the problematic technological and ecological context of humanity's immediate and long term future. The book is unique and innovative for it moves adventurously across very broad territory. The Manifesto draws from world philosophic arguments including specifically a critique of liberalism further exploring sociology, cultural anthropology, politics, primatology and early humanity even quantum physics. Argument is set within mainstream post 1972 economics and political economics as well as direct practical experience working to empower disadvantaged communities through the United Nations. Most importantly the book's analysis is deeply informed by the practice of searching for what is sacred, the ultimate essence of our humanity, what we can be as a human race, empowered, fulfilled individuals, deeply sharing and caring for each other across our separate cultures and lives. Stomu Yamash'ta's On Zen performances set the context for the Symposia bringing different religions and cultures together across their dividing boundaries into a coherent search for peace and harmony through sacred music. Informed by alternate cultural paradigms for economics the book probes deeply into philosophies and practices that already exist within Eastern and Western societies and offer lessons for our future. The result is an economics that stresses harmony with nature and balance in social relations. It places an emphasis on community, human sharing and trust as a platform for our future not separate from the global economy but integrated into its very foundations. This is a book for all who care, a plan for our sustainable future built from the best of what our humanity is and can offer.

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Phenomena In Condensed Matter Physics - 26th Karpacz Winter School Of Theoretical Physics Z M Galasiewicz, A

Pekalski,1990-11-27 Contents NQR in High Tc Superconductors M E Garcia K H Bennemann On the Critical Temperature of Superconductors from Eliashberg Theory R Combescot Defects Oxygen Ordering and Properties of La Cu O and Ba Bi O Superconductors B Dabrowski et al From Schafroth Pairs to Cooper Pairs C P Enz Superconductivity with Local Attraction R Micnas S Robaszkiewicz Quasiparticles in Doped Quantum Antiferromagnets P Prelovsek et al Cellular Automata P Grassberger Lattice Gas Cellular Automata Beyond the Boltzmann Equation M H Ernst A Lattice Gas Model for Orientational Ordering in Liquids D A Huckaby M Shinmi Group Theory and Phases of Superfluid ^3He H W Capel Fluctuation Theory of Invar Systems D Wagner and others Readership Condensed matter physicists

Concise Encyclopedia of Magnetic and Superconducting Materials K.H.J. Buschow,2005-12-28 Magnetic and superconducting materials pervade every avenue of the technological world from microelectronics and mass data storage to medicine and heavy engineering Both areas have experienced a recent revitalisation of interest due to the discovery of new materials and the re evaluation of a wide range of basic mechanisms and phenomena This Concise Encyclopedia draws its material from the award winning Encyclopedia of Materials and Engineering and includes updates and revisions not available in the original set making it the ideal reference companion for materials scientists and engineers with an interest in magnetic and superconducting materials Contains in excess of 130 articles taken from the award winning Encyclopedia of Materials Science and Technology including ScienceDirect updates not available in the original set Each article discusses one aspect of magnetic and superconducting materials and includes photographs line drawings and tables to aid the understanding of the topic at hand Cross referencing guides readers to articles covering subjects of related interest

New Perspectives in Magnetism of Metals Duk Joo Kim,2013-03-09 The fundamental physics of metallic magnetism is not yet satisfactorily understood and continues to be interesting For instance although the detail is yet to be clarified magnetism is anticipated to be playing a principal role in producing the high Tc superconductivity of the oxides This book has two major objectives First it intends to provide an introduction to magnetism of metals in a broad sense Besides pursuing the mechanism of metallic magnetism itself it attempts to find and actively analyze magnetic causes hidden hitherto unnoticed behind various physical phenomena My foremost goal is to expose the fundamental role played by phonons in the mechanism of metallic magnetism I demonstrate how such a view also helps to elucidate a broad spectrum of other observations The second objective is to concisely introduce the standard many body points of view and techniques necessary in studying solid physics in general The book is intended to be self contained and starts with Chapter I containing a brief summary on the rudiments of quantum mechanics and statistical mechanics including the method of second quantization In the same spirit the foundation of magnetism in general is summarized in Chapter 2 and that for metals in particular the Stoner theory in Chapter 3 In Chapter 4 various linear responses of metallic electrons are systematically discussed with emphasis on the role of magnetism in them

Electronic Phase Transitions Yu.V. Kopaev,W. Hanke,2012-12-02 Electronic Phase Transitions deals with topics which are presently at

the forefront of scientific research in modern solid state theory Anderson localization which has fundamental implications in many areas of solid state physics as well as spin glasses with its influence on quite different research activities such as neural networks are two examples that are reviewed in this book The ab initio statistical mechanics of structural phase transitions is another prime example where the interplay and connection of two unrelated disciplines of solid state theory first principle electronic structure calculations and critical phenomena has given rise to impressive new insights Clearly there is more and more need for accurate stable numerical simulations of models of interacting electrons presently discussed with great vigor in connection with high T_c superconductors where the superconducting transition is close to a magnetic transition i e an antiferromagnetic spin structure These topics and others are discussed and reviewed by leading experts in the field

Extreme States of Matter Vladimir E. Fortov, 2015-12-26 With its many beautiful colour pictures this book gives fascinating insights into the unusual forms and behaviour of matter under extremely high pressures and temperatures These extreme states are generated among other things by strong shock detonation and electric explosion waves dense laser beams electron and ion beams hypersonic entry of spacecraft into dense atmospheres of planets and in many other situations characterized by extremely high pressures and temperatures Written by one of the world s foremost experts on the topic this book will inform and fascinate all scientists dealing with materials properties and physics and also serve as an excellent introduction to plasma shock wave and high energy density physics for students and newcomers seeking an overview This second edition is thoroughly revised and expanded in particular with new material on high energy density physics nuclear explosions and other nuclear transformation processes

Handbook of Magnetic Materials K.H.J. Buschow, 2014-12-01 Over the last few decades magnetism has seen an enormous expansion into a variety of different areas of research notably the magnetism of several classes of novel materials that share with truly ferromagnetic materials only the presence of magnetic moments Volume 23 of the Handbook of Magnetic Materials like the preceding volumes has a dual purpose With contributions from leading authorities in the field it includes a variety of self contained introductions to a given area in the field of magnetism without requiring recourse to the published literature It is also a reference for scientists active in magnetism research providing readers with novel trends and achievements in magnetism In each of these articles an extensive description is given in graphical as well as in tabular form with much emphasis being placed on the discussion of the experimental material within the framework of physics chemistry and material science Comprises topical review articles written by leading authorities Introduces given topics in the field of magnetism Describes novel trends and achievements in magnetism

Proceedings of the International Conference on Magnetism , 1989 **Magnetism in Condensed Matter** Stephen Blundell, 2001-10-04 The superb book describes the modern theory of the magnetic properties of solids Starting from fundamental principles this copiously illustrated volume outlines the theory of magnetic behaviour describes experimental techniques and discusses current research topics The book is intended for final year undergraduate students and graduate

students in the physical sciences *Dynamic Spin-Fluctuation Theory of Metallic Magnetism* Nikolai B. Melnikov, Boris I. Reser, 2018-08-02 This book presents a theoretical framework for magnetism in ferromagnetic metals and alloys at finite temperatures The objective of the book is twofold First it gives a detailed presentation of the dynamic spin fluctuation theory that takes into account both local and long wave spin fluctuations with any frequency The authors provide a detailed explanation of the fundamental role of quantum spin fluctuations in the mechanism of metallic magnetism and illustrate the theory with concrete examples The second objective of the book is to give an accurate and self contained presentation of many body techniques such as the functional integral method and Green s functions via a number of worked examples These computational methods are of great use to solid state physicists working in a range of specialties The book is intended primarily for researchers but can also be used as textbook The introductory chapters offer clear and complete derivations of the fundamentals which makes the presentation self contained The main text is followed by a number of well organized appendices that contain a detailed presentation of the necessary many body techniques and computational methods The book also includes a list of symbols and detailed index This volume will be of interest to a wide range of physicists interested in magnetism and solid state physics in general both theoreticians and experimentalists The Fractional Quantum Hall Effect Tapash Chakraborty, Pekka Pietiläinen, 2012-12-06 The experimental discovery of the fractional quantum Hall effect FQHE at the end of 1981 by Tsui Stormer and Gossard was absolutely unexpected since at this time no theoretical work existed that could predict new structures in the magnetotransport coefficients under conditions representing the extreme quantum limit It is more than thirty years since investigations of bulk semiconductors in very strong magnetic fields were begun Under these conditions only the lowest Landau level is occupied and the theory predicted a monotonic variation of the resistivity with increasing magnetic field depending sensitively on the scattering mechanism However the experimental data could not be analyzed accurately since magnetic freeze out effects and the transitions from a degenerate to a nondegenerate system complicated the interpretation of the data For a two dimensional electron gas where the positive background charge is well separated from the two dimensional system magnetic freeze out effects are barely visible and an analysis of the data in the extreme quantum limit seems to be easier First measurements in this magnetic field region on silicon field effect transistors were not successful because the disorder in these devices was so large that all electrons in the lowest Landau level were localized Consequently models of a spin glass and finally of a Wigner solid were developed and much effort was put into developing the technology for improving the quality of semiconductor materials and devices especially in the field of two dimensional electron systems The Quantum Hall Effect Daijiro Yoshioka, 2002-02-26 The fractional quantum Hall effect has opened up a new paradigm in the study of strongly correlated electrons and it has been shown that new concepts such as fractional statistics anyon chiral Luttinger liquid and composite particles are realized in two dimensional electron systems This book explains the quantum Hall effects together with these new concepts starting from elementary quantum mechanics

Modern Theory of Magnetism in Metals and Alloys Yoshiro Kakehashi, 2013-01-11 This book describes theoretical aspects of the metallic magnetism from metals to disordered alloys to amorphous alloys both at the ground state and at finite temperatures The book gives an introduction to the metallic magnetism and treats effects of electron correlations on magnetism spin fluctuations in metallic magnetism formation of complex magnetic structures a variety of magnetism due to configurational disorder in alloys as well as a new magnetism caused by the structural disorder in amorphous alloys especially the itinerant electron spin glasses The readers will find that all these topics can be understood systematically by means of the spin fluctuation theories based on the functional integral method

Creative Complex Systems Kazuo Nishimura, Masatoshi Murase, Kazuyoshi Yoshimura, 2021-10-26 In recent years problems such as environmental and economic crises and pandemics caused by new viruses have been occurring on a global scale Globalization brings about benefits but it can increase the potential risks of systemic problems leading to system wide disruptions The coronavirus pandemic declared on March 11 2020 by the World Health Organization has revealed social disparities in the form of a higher risk of death for people of low socioeconomic status and has caused massive destruction of the economy and of globalization itself Extensive efforts to cope with these challenges have often led to the emergence of additional problems due to the chain of hidden causation What can be done to protect against such emerging challenges Despite the resulting complexity once these individual problems are considered as different aspects of a single whole seemingly contradictory issues can become totally understandable as they can be integrated into a single coherent framework This is the integrationist approach in contrast to the reductionist approach Situations of this kind are truly relevant to understanding the question What are creative complex systems This book features contributions by members and colleagues of the Kyoto University International Research Unit of Integrated Complex System Science It broadens our outlook from the traditional view of stability in which global situations are eventually stabilized after the impact of destruction to creative complex systems Chapter 1 David Pines and Me is available open access under a Creative Commons Attribution 4.0 International License via link [springer.com](https://www.springer.com)

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