

Assa Auerbach

Interacting Electrons and Quantum Magnetism



Interacting Electrons And Quantum Magnetism

Michael L. Wall



Interacting Electrons And Quantum Magnetism:

Interacting Electrons and Quantum Magnetism Assa Auerbach, 2012-12-06 In the excitement and rapid pace of developments writing pedagogical texts has low priority for most researchers However in transforming my lecture l notes into this book I found a personal benefit the organization of what I understand in a hopefully simple logical sequence Very little in this text is my original contribution Most of the knowledge was collected from the research literature Some was acquired by conversations with colleagues a kind of physics oral tradition passed between disciples of a similar faith For many years diagramatic perturbation theory has been the major theoretical tool for treating interactions in metals semiconductors itinerant magnets and superconductors It is in essence a weak coupling expansion about free quasiparticles Many experimental discoveries during the last decade including heavy fermions fractional quantum Hall effect high temperature superconductivity and quantum spin chains are not readily accessible from the weak coupling point of view Therefore recent years have seen vigorous development of alternative nonperturbative tools for handling strong electron electron interactions I concentrate on two basic paradigms of strongly interacting or constrained quantum systems the Hubbard model and the Heisenberg model These models are vehicles for fundamental concepts such as effective Hamiltonians variational ground states spontaneous symmetry breaking and quantum disorder In addition they are used as test grounds for various nonperturbative approximation schemes that have found applications in diverse areas of theoretical physics

Interacting Electrons and Quantum Magnetism Assa Auerbach, 1994-09-02 Interacting Electrons and Quantum Magnetism Assa Auerbach, 1998 An Introduction to Quantum Spin Systems John B. Parkinson, Damian J. J.

Farnell, 2010-09-20 The topic of lattice quantum spin systems is a fascinating and by now well established branch of theoretical physics Based on a set of lectures this book has a level of detail missing from others and guides the reader through the fundamentals of the field

Quantum Magnetism Ulrich Schollwöck, Johannes Richter, Damian J. J. Farnell, Raymond F. Bishop, 2008-05-14 The investigation of magnetic systems where quantum effects play a dominant role has become a very active branch of solid state physics research in its own right The first three chapters of the Quantum Magnetism survey conceptual problems and provide insights into the classes of systems considered namely one dimensional two dimensional and molecular magnets The following chapters introduce the methods used in the field of quantum magnetism including spin wave analysis exact diagonalization quantum field theory coupled cluster methods and the Bethe ansatz The book closes with a chapter on quantum phase transitions and a contribution that puts the wealth of phenomena into the context of experimental solid state physics Closing a gap in the literature this volume is intended both as an introductory text at postgraduate level and as a modern comprehensive reference for researchers in the field

Quantum Many-Body Physics of Ultracold Molecules in Optical Lattices Michael L. Wall, 2015-04-20 This thesis investigates ultracold molecules as a resource for novel quantum many body physics in particular by utilizing their rich

internal structure and strong long range dipole dipole interactions In addition numerical methods based on matrix product states are analyzed in detail and general algorithms for investigating the static and dynamic properties of essentially arbitrary one dimensional quantum many body systems are put forth Finally this thesis covers open source implementations of matrix product state algorithms as well as educational material designed to aid in the use of understanding such methods

Universal Themes of Bose-Einstein Condensation Nick P. Proukakis, David W. Snoke, Peter B. Littlewood, 2017-04-27

Following an explosion of research on Bose Einstein condensation BEC ignited by demonstration of the effect by 2001 Nobel prize winners Cornell Wieman and Ketterle this book surveys the field of BEC studies Written by experts in the field it focuses on Bose Einstein condensation as a universal phenomenon covering topics such as cold atoms magnetic and optical condensates in solids liquid helium and field theory Summarising general theoretical concepts and the research to date including novel experimental realisations in previously inaccessible systems and their theoretical interpretation it is an excellent resource for researchers and students in theoretical and experimental physics who wish to learn of the general themes of BEC in different subfields

Modern trends in Superconductivity and Superfluidity M. Yu. Kagan, 2013-12-11 This book concisely presents the latest trends in the physics of superconductivity and superfluidity and magnetism in novel systems as well as the problem of BCS BEC crossover in ultracold quantum gases and high T_c superconductors It further illuminates the intensive exchange of ideas between these closely related fields of condensed matter physics over the last 30 years of their dynamic development The content is based on the author's original findings obtained at the Kapitza Institute as well as advanced lecture courses he held at the Moscow Engineering Physical Institute Amsterdam University Loughborough University and LPTMS Orsay between 1994 and 2011 In addition to the findings of his group the author discusses the most recent concepts in these fields obtained both in Russia and in the West The book consists of 16 chapters which are divided into four parts The first part describes recent developments in superfluid hydrodynamics of quantum fluids and solids including the fashionable subject of possible supersolidity in quantum crystals of ^4He while the second describes BCS BEC crossover in quantum Fermi Bose gases and mixtures as well as in the underdoped states of cuprates The third part is devoted to non phonon mechanisms of superconductivity in unconventional anomalous superconductors including some important aspects of the theory of high T_c superconductivity The last part considers the anomalous normal state of novel superconductive materials and materials with colossal magnetoresistance CMR The book offers a valuable guide for senior level undergraduate students and graduate students postdoctoral and other researchers specializing in solid state and low temperature physics

Fundamentals of the Physics of Solids Jenő Sólyom, 2010-12-09 This book is the third of a three volume series written by the same author It aims to deliver a comprehensive and self contained account of the fundamentals of the physics of solids In the presentation of the properties and experimentally observed phenomena together with the basic concepts and theoretical methods it goes far beyond most classic texts The essential features of various experimental

techniques are also explained This volume is devoted mostly to the discussion of the effects of electron electron interaction beyond the one electron approximation The density functional theory is introduced to account for correlation effects The response to external perturbations is discussed in the framework of linear response theory Landau s Fermi liquid theory is followed by the theory of Luttinger liquids The subsequent chapters are devoted to electronic phases with broken symmetry to itinerant magnetism to spin and charge density waves and their realizations in quasi one dimensional materials as well as to the microscopic theory of superconductivity An overview is given of the physics of strongly correlated systems The last chapter covers selected problems in the physics of disordered systems

The One-Dimensional Hubbard Model Fabian H. L. Essler, Holger Frahm, Frank Göhmann, Andreas Klümper, Vladimir E. Korepin, 2005-02-07 The description of solids at a microscopic level is complex involving the interaction of a huge number of its constituents such as ions or electrons It is impossible to solve the corresponding many body problems analytically or numerically although much insight can be gained from the analysis of simplified models An important example is the Hubbard model which describes interacting electrons in narrow energy bands and which has been applied to problems as diverse as high Tc superconductivity band magnetism and the metal insulator transition This book presents a coherent self contained account of the exact solution of the Hubbard model in one dimension The early chapters will be accessible to beginning graduate students with a basic knowledge of quantum mechanics and statistical mechanics The later chapters address more advanced topics and are intended as a guide for researchers to some of the more topical results in the field of integrable models

Adopting the Beat of Appearance: An Emotional Symphony within **Interacting Electrons And Quantum Magnetism**

In a global eaten by monitors and the ceaseless chatter of immediate connection, the melodic elegance and psychological symphony created by the published word often fade into the background, eclipsed by the constant noise and disturbances that permeate our lives. Nevertheless, nestled within the pages of **Interacting Electrons And Quantum Magnetism** a marvelous literary value overflowing with raw thoughts, lies an immersive symphony waiting to be embraced. Constructed by an elegant musician of language, that charming masterpiece conducts visitors on a psychological journey, well unraveling the concealed tunes and profound impact resonating within each carefully constructed phrase. Within the depths with this poignant assessment, we shall discover the book is main harmonies, analyze its enthralling publishing design, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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