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CONDUCTOR-INSULATOR QUANTUM PHASE TRANSITIONS

VLADIMIR DUBROVSKY, NANDINI TRIVEDI,
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Conductor Insulator Quantum Phase Transitions

Jianjun Gao

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Conductor Insulator Quantum Phase Transitions Vladimir Dobrosavljevic, Nandini Trivedi, James M. Valles Jr., 2012-06-28
Quantum phase transitions describe the violent rearrangement of electrons or atoms as they evolve from well defined excitations in one phase to a completely different set of excitations in another. The chapters in this book give insights into how a coherent metallic or superconducting state can be driven into an incoherent insulating state by increasing disorder magnetic field carrier concentration and inter electron interactions. The problem necessarily involves many interacting particles and therein lies the challenge to develop a multi faceted theory. Experiments probing microscopic structure transport charge and spin dynamics provide important clues. What sets this book apart is a strong dialog between experiment and theory that has the potential to solve some major issues in many body physics. The ideas and methods developed here are bound to have repercussions in all spheres of physics

Understanding Quantum Phase Transitions Lincoln

Carr, 2010-11-02 Quantum phase transitions QPTs offer wonderful examples of the radical macroscopic effects inherent in quantum physics phase changes between different forms of matter driven by quantum rather than thermal fluctuations typically at very low temperatures. QPTs provide new insight into outstanding problems such as high temperature superconductivity

Electrodynamics of Quantum-Critical Conductors and Superconductors Uwe Santiago Pracht, 2017-12-14 This thesis presents and discusses recent optical low temperature experiments on disordered NbN granular Al thin films and the heavy fermion compound CeCoIn5 offering a unified picture of quantum critical superconductivity. It provides a concise introduction to the respective theoretical models employed to interpret the experimental results and guides readers through in depth calculations supplemented with supportive figures in order to both retrace the interpretations and span the bridge between experiment and state of the art theory

Handbook on the Physics and Chemistry of Rare Earths, 2016-08-01 Handbook on the Physics and Chemistry of Rare Earths is a continuous series of books covering all aspects of rare earth science including chemistry life sciences materials science and physics. The book's main emphasis is on rare earth elements Sc Y and the lanthanides La through Lu but whenever relevant information is also included on the closely related actinide elements. Individual chapters are comprehensive broad up to date critical reviews written by highly experienced invited experts. The series which was started in 1978 by Professor Karl A Gschneidner Jr combines and integrates both the fundamentals and applications of these elements and publishes two volumes a year. Presents up to date overviews of new developments in the field of rare earths covering both their physics and chemistry. Contains individual chapters that are comprehensive and broad with critical reviews. Provides contributions from highly experienced invited experts

The Mott Metal-Insulator Transition Florian Gebhard, 1997-03-20 Little do we reliably know about the Mott transition and we are far from a complete understanding of the metal insulator transition due to electron interactions. Mott summarized his basic ideas on the subject in his wonderful book Metal Insulator Transitions that

first appeared in 1974 11 1 In his view a Mott insulator displays a gap for charge carrying excitations due to electron correlations whose importance is expressed by the presence of local magnetic moments regardless of whether or not they are ordered Since the subject is far from being settled different opinions on specific aspects of the Mott transition still persist This book naturally embodies my own understanding of the phenomenon inspired by the work of the late Sir Kevill Mott The purpose of this book is twofold first to give a detailed presentation of the basic theoretical concepts for Mott insulators and second to test these ideas against the results from model calculations For this purpose the Hubbard model and some of its derivatives are best suited The Hubbard model describes a Mott transition with a mere minimum of tunable parameters and various exact statements and even exact solutions exist in certain limiting cases Exact solutions not only allow us to test our basic ideas but also help to assess the quality of approximate theories for correlated electron systems

Statistical Condensed Matter Physics Carlo Di Castro,Roberto Raimondi,2015-08-27 An innovative and modular textbook combining established classical topics in statistical mechanics with the latest developments in condensed matter physics

Strongly Correlated Electrons in Two Dimensions Sergey Kravchenko,2017-05-25 The properties of strongly correlated electrons confined in two dimensions are a forefront area of modern condensed matter physics In the past two or three decades strongly correlated electron systems have garnered a great deal of scientific interest due to their unique and often unpredictable behavior Two of many examples are the metallic state and the metal insulator transition discovered in 2D semiconductors phenomena that cannot occur in noninteracting systems Tremendous efforts have been made in both theory and experiment to create an adequate understanding of the situation however a consensus has still not been reached

Strongly Correlated Electrons in Two Dimensions compiles and details cutting edge research in experimental and theoretical physics of strongly correlated electron systems by leading scientists in the field The book covers recent theoretical work exploring the quantum criticality of Mott and Wigner Mott transitions experiments on the metal insulator transition and related phenomena in clean and dilute systems the effect of spin and isospin degrees of freedom on low temperature transport in two dimensions electron transport near the 2D Mott transition experimentally observed temperature and magnetic field dependencies of resistivity in silicon based systems with different levels of disorder and microscopic theory of the interacting electrons in two dimensions Edited by Sergey Kravchenko a prominent experimentalist this book will appeal to advanced graduate level students and researchers specializing in condensed matter physics nanophysics and low temperature physics especially those involved in the science of strong correlations 2D semiconductors and conductor insulator transitions

Advances in Chemical Physics Ilya Prigogine,Stuart A. Rice,2003-04-23 Advances in Chemical Physics covers recent advances at the cutting edge of research relative to chemical physics The series Advances in Chemical Physics provides a forum for critical authoritative evaluations of advances in every area of the discipline

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