



Open Problems in Strongly Correlated Electron Systems

Edited by

Janez Bonča, Peter Prelovšek, Anton Ramšak
and Sarben Sarkar

NATO Science Series

Open Problems In Strongly Correlated Electron Systems

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Bishop, Peter Iza**



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Open Problems in Strongly Correlated Electron Systems Janez Bonca, Peter Prelovsek, Anton Ramsak, Sarben Sarkar, 2012-12-06 Proceedings of the NATO Advanced Research Workshop Bled Slovenia 26 30 April 2000 *Open problems in strongly correlated electron systems*, 2000 **Strongly Correlated Electron Systems Iii - Proceedings Of The Adriatico Research Conference And Miniworkshop** G Baskaran, A E Ruckenstein, Erio Tosatti, Lu Yu, 1992-03-31

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 *Superconductivity And Strongly Correlated Electron Systems* Gaetano Scarpetta, Canio Noce, Alfonso Romano, 1994-10-25 This volume contains invited and contributed papers of eminent scientists who are deeply involved in the field of strongly correlated electron systems and high T_c superconductivity The topics of the papers include the Hubbard model the tJ model the polaronic model for high T_c superconductivity Fermi liquid and non Fermi liquid theory and heavy fermion systems *Concepts in Electron Correlation* Alex C. Hewson, Veljko Zlatić, 2012-12-06 The NATO sponsored Advanced Research Workshop on Concepts in Electron Correlation took place on the Croatian island of Hvar during the period from the 29th of September to the 3rd of October 2002 The topic of electron correlation is a fundamental one in the field of condensed matter and one that is being very actively studied both experimentally and theoretically at the present time The manifestations of electron correlation are diverse and play an important role in systems ranging from high temperature superconductors heavy fermions manganite compounds with colossal magnetoresistance transition metal

compounds with metal insulator transitions to mesoscopic systems and quantum dots The aim of the workshop was to provide an opportunity for a dialogue between experimentalists and theoreticians to assess the current state of understanding and to set an agenda for future work There was also a follow up workshop on the same topic where the presentations included more background and introductory material for younger researchers in the field The papers presented in these proceedings clearly demonstrate the diversity of current research on electron correlation They show that real progress is being made in characterising systems experimentally and in developing theoretical approaches for a quantitative comparison with experiment The more one learns however the more there is to understand and many of the contributions help to map out the territory which has yet to be explored We hope that the articles in this volume will be a stimulus for such future work

Condensed Matter Theories - Proceedings of the 33rd International Workshop Eduardo V. Ludena, 2011-03-04 The orientation and physical context of the CMT Series of Workshops have always been cross disciplinary but with an emphasis placed on the common concerns of theorists applying many particle concepts in diverse areas of physics In this spirit CMT33 chose to focus special attention on exotic fermionic and bosonic systems quantum magnets and their quantum and thermal phase transitions novel condensed matter systems for renewable energy sources the physics of nanosystems and nanotechnology and applications of molecular dynamics and density functional theory

Condensed Matter Theories, Volume 25 - Proceedings Of The 33rd International Workshop Eduardo V Ludena, Raymond F Bishop, Peter Iza, 2011-03-04 The orientation and physical context of the CMT Series of Workshops have always been cross disciplinary but with an emphasis placed on the common concerns of theorists applying many particle concepts in diverse areas of physics In this spirit CMT33 chose to focus special attention on exotic fermionic and bosonic systems quantum magnets and their quantum and thermal phase transitions novel condensed matter systems for renewable energy sources the physics of nanosystems and nanotechnology and applications of molecular dynamics and density functional theory a Condensed Matter Theories, Volume 22 - Proceedings Of The International Workshop Gerd Ropke, Heidi Reinholz, Manuel De

Llano, 2007-09-05 This series on condensed matter theories provides a forum for advanced theoretical research in quantum many body theory The contributions are highly interdisciplinary emphasizing common concerns among theorists who apply many particle methods in such diverse areas as solid state low temperature statistical nuclear particle and biological physics as well as in quantum field theory quantum information and the theory of complex systems Each individual contribution is preceded by an extended introduction to the topic treated Useful details not normally presented in journal articles can be found in this volume

Lectures on the Physics of Highly Correlated Electron Systems VI Ferdinando Mancini, 2002-10-08 Contains the lectures and participant contributions delivered at the Sixth Training Course in the Physics of Correlated Electron Systems and High Tc Superconductors

Electron Correlations in Molecules and Solids Peter Fulde, 2012-12-06 Electron Correlations in Molecules and Solids bridges the gap between quantum chemistry and solid state theory In the first

half of the text new concepts are developed for treating many body and correlation effects combining standard quantum chemical methods with projection techniques Greens function methods and Monte Carlo techniques The second half deals with applications of the theory to molecules semiconductors transition metals heavy fermion systems and the new high Tc superconducting materials

Many-Electron Approaches in Physics, Chemistry and Mathematics Volker Bach, Luigi Delle Site, 2014-07-01 This book provides a broad description of the development and computational application of many electron approaches from a multidisciplinary perspective In the context of studying many electron systems Computer Science Chemistry Mathematics and Physics are all intimately interconnected However beyond a handful of communities working at the interface between these disciplines there is still a marked separation of subjects This book seeks to offer a common platform for possible exchanges between the various fields and to introduce the reader to perspectives for potential further developments across the disciplines The rapid advances of modern technology will inevitably require substantial improvements in the approaches currently used which will in turn make exchanges between disciplines indispensable In essence this book is one of the very first attempts at an interdisciplinary approach to the many electron problem

Physics of Strongly Correlated Electron Systems, 1999 *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

New Developments in Field Theory O. Kovras, 2006 Quantum field theory was invented to deal simultaneously with special relativity and quantum mechanics the two greatest discoveries of early twentieth century physics but it has become increasingly important to many areas of physics including quantum hall physics surface growth string theory D branes and quantum gravity as well as condensed matter and high energy applications and particle physics This book presents leading edge research from throughout the world

Nematicity in iron-based superconductors Qisi Wang, Anna Böhmer, Laura Fanfarillo, 2023-02-15 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 T_c 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

Finite Size Effects in Correlated Electron Models Andrei A. Zvyagin, 2005 The book presents exact results for one dimensional models including quantum spin models of strongly correlated electrons in a comprehensive and concise manner It incorporates important results related to magnetic and hybridization impurities in electron hosts and contains exact original results for disordered ensembles of impurities in interacting systems These models describe a number of real low dimensional electron systems that are widely used in nanophysics and microelectronics An important method of modern theoretical and mathematical physics the Bethe's Ansatz BA is introduced to readers This book presents different forms of the BA for periodic and open quantum chains Other forms dealt with are the coordinate BA thermodynamic BA nested BA algebraic BA and thermal BA The book also contains a compact description of other theoretical methods such as scaling conformal field theory Abelian and non Abelian bosonizations The book is suitable for use as a textbook by graduate students in non perturbative methods of low dimensional quantum many body theory It will also be a useful source of reference for qualified physicists as well as non experts in low dimensional physics as it explores material necessary for further studies in the fields of exactly solvable quantum models and low dimensional correlated electron systems

Anharmonic Properties Of High- t_c Cuprates - Proceedings Of The International Workshop Dragan Mihailovic, Karl Alex Muller, Giampiero Ruani, E Kaldes, 1995-06-29 This volume deals with an important aspect of the physics of high temperature superconductors In recent years a wealth of experimental and theoretical work has accumulated on the subject of anharmonicity in connection to either superconductivity or lattice properties of superconducting oxides The papers by leading experts are the proceedings of the first workshop dedicated to dealing with these issues

Strongly Correlated Electron Systems - Proceedings Of The Anniversary Adriatico Research Conference And Workshop G Baskaran, A E Ruckenstein, Lu Yu, Erio Tosatti, 1990-01-01

Unveiling the Energy of Verbal Art: An Psychological Sojourn through **Open Problems In Strongly Correlated Electron Systems**

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