



MatSQ Column #042

# **Electron Structure and Magnetic Property of Strongly Correlated Material Systems (1) : What is the Electron Correlation?**

# Electron Correlations And Materials Properties

**Antonios Gonis**



## **Electron Correlations And Materials Properties :**

Electron Correlations and Materials Properties A. Gonis, Nicholis Kioussis, Mikael Ciftan, 2012-12-06 Over the last thirty years or so the attempts to identify the electronic origins of materials properties have proceeded along two distinct and apparently divergent methodologies On the one hand so called single particle methods are based on the study of a single electron moving in an effective field formed by the other electrons and the nuclei in the system Band theory as this approach is referred to has had impressive successes in determining the equilibrium properties such as structural stability volume and charge densities of specific materials notably metals Today even coherent phase diagrams based on a single underlying lattice for binary metallic alloys can be studied with considerable accuracy In spite of its serious and well understood limitations regarding the handling of correlations band theory has been embraced by the materials scientist Its single particle nature endows the method with an economy of concepts which leads to a clear identification of mechanisms driving physical behavior at the electronic level This perceived clarity often tends to override legitimate concerns regarding the validity of the method or its ability to correctly identify the mechanisms in the first place The alternative methodology pursued in the study of quantum systems consists of what can be referred to as conventional many body theory This methodology is based on attempts to study explicitly the effects of interparticle correlations using a number of different formal approaches including but not limited to perturbation methods Green function equation of motion methods configuration interactions quantum Monte Carlo and others *Electron Correlations and Materials Properties* ,2006

**Electron Correlations and Materials Properties 2** A. Gonis, Nicholis Kioussis, Mikael Ciftan, 2014-01-15 **Electron Correlations and Materials Properties 2** A. Gonis, Nicholis Kioussis, Mikael Ciftan, 2013-03-09 This is the second in a series of International Workshops on Electron Correlations and Materials Properties The aim of this series of workshops is to provide a periodic triennial and in depth assessment of advances in the study and understanding of the effects that electron electron interactions in solids have on the determination of measurable properties of materials The workshop is structured to include exposure to experimental work to phenomenology and to ab initio theory Since correlation effects are pervasive the workshop aims to concentrate on the identification of promising developing methodology experimental and theoretical addressing the most critical frontier issues of electron correlations on the properties of materials This series of workshops is distinguished from other topical meetings and conferences in that it strongly promotes an interdisciplinary approach to the study of correlations involving the fields of quantum chemistry physics and materials science The First Workshop was held June 28 July 3 1998 and a proceedings of the workshop was published by Kluwer/Plenum The Second Workshop was held June 24 29 2001 and this volume contains the proceedings of that scientific meeting Through the publications of proceedings the workshop attempts to disseminate the information gathered during the discussions held at the Workshop to the wider scientific community and to establish a record of advances in the field Special issue: Electron correlations and materials

properties Antonios Gonis, Nick Kioussis, Peter Riseborough, 2006      **Special Issue: Electron Correlations and Materials Properties** Antonios Gonis, 2006      **Advances in Solid State Physics** Bernhard Kramer, 2003-09-22 Volume 43 of Advances in Solid State Physics contains the written versions of most of the plenary and invited lectures of the Spring Meeting of the Condensed Matter Physics section of the Deutsche Physikalische Gesellschaft held from March 24 to 28 2003 in Dresden Germany Many of the topical talks given at the numerous and very lively symposia are also included They covered an extremely interesting selection of timely subjects Thus the book truly reflects the status of the field of solid state physics in 2003 and explains its attractiveness not only in Germany but also internationally      **Electron Correlation in New Materials and Nanosystems** Kurt Scharnberg, Sergei Kruchinin, 2007-05-24 The articles collected in this book cover a wide range of materials with extraordinary superconducting and magnetic properties For many of the materials studied strong electronic correlations provide a link between these two phenomena which were long thought to be highly antagonistic The book reports both the progress in our understanding of fundamental physical processes and the advances made towards the development of devices      **Electronic Correlation Mapping** Jamal Berakdar, 2008-07-11 An up to date selection of applications of correlation spectroscopy in particular as far as the mapping of properties of correlated many body systems is concerned The book starts with a qualitative analysis of the outcome of the two particle correlation spectroscopy of localized and delocalized electronic systems as they occur in atoms and solids The second chapter addresses how spin dependent interactions can be imaged by means of correlation spectroscopy both in spin polarized and extended systems A further chapter discusses possible pathways for the production of interacting two particle continuum states After presenting some established ways of quantifying electronic correlations and pointing out the relationship to correlation spectroscopy the author addresses in a separate chapter the electron electron interaction in extended systems and illustrates the ideas by some applications to fullerenes and metal clusters The last two chapters are devoted to the investigation of the potential of two particle spectroscopy in studying ordered surfaces and disordered samples Throughout the book the material is analyzed using rather qualitative arguments and the results of more sophisticated theories serve the purpose of endorsing the suggested physical scenarios The foundations of some of these theories have been presented in a corresponding volume entitled Concepts of Highly Excited Electronic Systems 3 527 40335 3      Electron Density Pratim Kumar Chattaraj, Debdutta Chakraborty, 2024-07-10 Discover theoretical methodological and applied perspectives on electron density studies and density functional theory Electron density or the single particle density is a 3D function even for a many electron system Electron density contains all information regarding the ground state and also about some excited states of an atom or a molecule All the properties can be written as functionals of electron density and the energy attains its minimum value for the true density It has been used as the basis for a quantum chemical computational method called Density Functional Theory or DFT which can be used to determine various properties of molecules DFT brings out a drastic reduction in computational

cost due to its reduced dimensionality. Thus DFT is considered to be the workhorse for modern computational chemistry physics as well as materials science. *Electron Density Concepts: Computation and DFT Applications* offers an introduction to the foundations and applications of electron density studies and analysis. Beginning with an overview of major methodological and conceptual issues in electron density, it analyzes DFT and its major successful applications. The result is a state-of-the-art reference for a vital tool in a range of experimental sciences. Readers will also find a balance of fundamentals and applications to facilitate use by both theoretical and computational scientists. Detailed discussion of topics including the Levy-Perdew-Sahni equation, the Kohn-Sham inversion problem, and more. Analysis of DFT applications including the determination of structural, magnetic, and electronic properties. *Electron Density Concepts: Computation and DFT Applications* is ideal for academic researchers in quantum theoretical and computational chemistry and physics.

*A spin- and momentum-resolved photoemission study of strong electron correlation in Co/Cu(001)* Martin Ellguth, 2015-06-15. Electron correlation is an important phenomenon of solid state physics which is actively studied both by experimentalists for the rich material properties which result from it and by theoreticians which face a lot of open questions on the way to a successful many-body description of electron systems where the Coulomb interaction plays an important role. Ferromagnetic cobalt is an interesting candidate for the study of electron correlation since the exchange interaction splits the band structure into majority spin and minority spin bands which differ considerably in the strength of the electron-electron interaction. Using a revolutionary parallelized approach to spin-resolved photoemission with an efficiency 3 to 4 orders of magnitude higher than previously possible, the spin-dependent manifestations of the electron correlation are revealed in unprecedented detail, allowing for a characterization of the self-energy. As an additional phenomenon of the electron correlation, unusual waterfall features previously only observed in superconductors occur in the photoemission spectra of cobalt. Further subjects include a comprehensive mapping of the fcc cobalt Fermi surface and an investigation of unoccupied quantum well states in ultrathin cobalt films on copper accessed by spin-resolved non-linear photoemission. The principle of the imaging spin filter and the data analysis routine are discussed in depth in a dedicated chapter.

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. *Advances in Highly Correlated Systems* Parvathy Nancy, Saju

Joseph, Wilfrid Prellier, Sabu Thomas, Nandakumar Kalarikkal, 2025-11-18 *Advances in Highly Correlated Systems* explores the fundamentals, recent advances and applications of the physics of highly correlated materials. This book serves as a handbook reference for advanced graduate students. The book provides fascinating insights into the major developments and applications of strongly correlated materials. It then goes on to integrate various numerical theoretical models such as dynamic mean field theory, Hubbard model, Ab Initio Calculation etc. It also encompasses a useful experimental and theoretical basis for students, researchers and scientists. **Electronic Structure of Strongly Correlated Materials**

Vladimir Anisimov, Yuri Izyumov, 2010-07-23 *Electronic structure and physical properties of strongly correlated materials containing elements with partially filled 3d, 4d, 4f and 5f electronic shells is analyzed by Dynamical Mean Field Theory (DMFT)*. DMFT is the most universal and effective tool used for the theoretical investigation of electronic states with strong correlation effects. In the present book the basics of the method are given and its application to various material classes is shown. The book is aimed at a broad readership: theoretical physicists and experimentalists studying strongly correlated systems. It also serves as a handbook for students and all those who want to be acquainted with fast developing field of condensed matter physics. Interatomic Potential and Structural Stability Kiyoyuki Terakura, Hisazumi Akai, 2013-03-08

Structural stability is of fundamental importance in materials science. Up to date information on the theoretical aspects of phase stability of materials is contained in this volume. Most of the first principles calculations are based on the local density approximation (LDA). In contrast this volume contains very recent results of going beyond LDA such as the density gradient expansion and the quantum Monte Carlo method. Following the recently introduced theoretical methods for the calculation of interatomic potentials, forces acting on atoms and total energies such as the Car-Parrinello, the effective medium and the bond order method, attempts have been made to develop even more sophisticated methods such as the order-N method in electronic structure calculations. The present status of these methods and their application to real systems are described. In addition, in order to study the phase stability at finite temperatures, the microscopic calculations have to be combined with statistical treatment of the systems to describe e.g. order-disorder transitions on the Si(001) surface or alloy phase diagrams. This book contains examples for this type of calculations. Emergent Phenomena in Correlated Matter Eva Pavarini, Erik

Koch, Ulrich Schollwöck, 2013 **Optical Techniques for Solid-State Materials Characterization** Rohit P.

Prasankumar,Antoinette J. Taylor,2016-04-19 Over the last century numerous optical techniques have been developed to characterize materials giving insight into their optical electronic magnetic and structural properties and elucidating such diverse phenomena as high temperature superconductivity and protein folding Optical Techniques for Solid State Materials Characterization provides **Magnetism And Electronic Correlations In Local-moment Systems: Rare-earth**

**Elements And Compounds** M Donath,Peter A Dowben,Wolfgang Nolting,1998-12-24 The interplay of magnetism and electronic correlations dominates the physical properties of many rare earth elements and their compounds The investigation of the mutual influence of the localized 4f electrons and itinerant band electrons represents a challenging task in theoretical as well as experimental physics Research areas of current interest are the electronic structure as determined from calculations and spectroscopies the magnetic properties in three and low dimensional systems open questions concerning transport such as spin disorder resistivity and the influence of structure and morphology *Properties and Applications of*

*Thermoelectric Materials* Veljko Zlatic,Alexander Hewson,2009-06-24 As concerns with the efficient use of energy resources and the minimization of environmental damage have come to the fore there has been a renewed interest in the role that thermoelectric devices could play in generating electricity from waste heat enabling cooling via refrigerators with no moving parts and many other more specialized applications The main problem in realizing this ambition is the rather low efficiency of such devices for general applications This book deals with the proceedings of a workshop addressed that problems by reviewing the latest experimental and theoretical work on suitable materials for device applications and by exploring various strategies that might increase their efficiency The proceedings cover a broad range of approaches from the experimental work of fabricating new compounds through to theoretical work in characterizing and understanding their properties The effects of strong electron correlation disorder the proximity to metal insulator transitions the properties of layered composite materials and the introduction of voids or cages into the structure to reduce the lattice thermal conductivity are all explored as ways of enhancing the efficiency of their use in thermoelectric devices Dynamical Mean-Field Theory for Strongly

Correlated Materials Volodymyr Turkowski,2021-04-22 This is the first book that provides a detailed summary of one of the most successful new condensed matter theories dynamical mean field theory DMFT in both static and dynamical cases of systems of different sizes DMFT is one of the most successful approaches to describe the physical properties of systems with strong electron electron correlations such as bulk materials multi layers surfaces 2D materials and nanostructures in both metallic and insulating phases Strongly correlated materials usually include partially filled localized d or f orbitals and DMFT takes into account crucial for these systems time resolved interaction between electrons when they meet on one atom and occupy one of these orbitals The First Part of the book covers the general formalism of DMFT as a many body theory followed by generalizations of the approach on the cases of finite systems and out of equilibrium regime In the last Chapter of the First Part we discuss generalizations of the approach on the case when the non local interactions are taken into account The

Second Part of the book covers methodologies of merging DMFT with ab initio static Density Functional Theory DFT and Time Dependent DFT TDDFT approaches Such combined DFT DMFT and DMFT TDDFT computational techniques allow one to include the effects of strong electron electron correlations at the accurate ab initio level These tools can be applied to complex multi atom multi orbital systems currently not accessible to DMFT The book helps broad audiences of students and researchers from the theoretical and computational communities of condensed matter physics material science and chemistry to become familiar with this state of art approach and to use it for reaching a deeper understanding of the properties of strongly correlated systems and for synthesis of new technologically important materials



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