

LECTURES ON THE PHYSICS OF HIGHLY CORRELATED ELECTRON SYSTEMS VII pdf

1: Condensed Matter Physics | University of Oxford Department of Physics

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The single most intensively studied effect is probably high-temperature superconductivity in doped cuprates , e. Other ordering or magnetic phenomena and temperature-induced phase transitions in many transition-metal oxides are also gathered under the term "strongly correlated materials. One can no longer consider any electron in the material as being in a " sea " of the averaged motion of the others also known as mean field theory. Each single electron has a complex influence on its neighbors. The term strong correlation refers to behavior of electrons in solids that is not well-described often not even in a qualitatively correct manner by simple one-electron theories such as the local-density approximation LDA of density-functional theory or Hartree-Fock theory. For instance, the seemingly simple material NiO has a partially filled 3d-band the Ni atom has 8 of 10 possible 3d-electrons and therefore would be expected to be a good conductor. However, strong Coulomb repulsion a correlation effect between d-electrons makes NiO instead a wide- band gap insulator. Thus, strongly correlated materials have electronic structures that are neither simply free-electron-like nor completely ionic, but a mixture of both. Hubbard-like models have been proposed and developed in order to describe phenomena that are due to strong electron correlation. Among them, dynamical mean field theory successfully captures the main features of correlated materials. Structural studies[edit] Experimentally, optical spectroscopy, high-energy electron spectroscopies , resonant photoemission , and more recently resonant inelastic hard and soft X-ray scattering RIXS and neutron spectroscopy have been used to study the electronic and magnetic structure of strongly correlated materials. Spectral signatures seen by these techniques that are not explained by one-electron density of states are often related to strong correlation effects. The experimentally obtained spectra can be compared to predictions of certain models or may be used to establish constraints to the parameter sets. One has for instance established a classification scheme of transition metal oxides within the so-called Zaanen-Sawatzky-Allen diagram. Hooley, Physics World, Vol. Retrieved 20 June Physica Status Solidi B. Anisimov, Vladimir; Yuri Izyumov Electronic Structure of Strongly Correlated Materials. Lecture Notes on Electron Correlation and Magnetism. Core Level Spectroscopy of Solids. Electron Correlations in Metals. Springer Series in Solid-State Sciences.

2: [cond-mat/] Local moment physics in heavy electron systems

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4: Strongly correlated material - Wikipedia

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