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17–19 FEB. 2021
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SUBIR SACHDEV

HARVARD UNIVERSITY

02. 17 KST 09:00-11:00 / 02. 16 EST 19:00-21:00

A simple model of many-particle quantum entanglement:
how it describes black holes and superconductors

02. 18 KST 09:00-11:00 / 02. 17 EST 19:00-21:00

LECTURE 1 Quantum spin liquids in antiferromagnets and Rydberg atoms
LECTURE 2 Fractionalization and emergent gauge fields in metals:
application to CeCoIn5 and the cuprates

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LECTURE 3 The SYK model and black holes
LECTURE 4 The SYK model and quantum matter without quasiparticles

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Though the text is primarily theoretical, a large number of illustrative examples are brought from the experimental literature.. 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.. 'Electronic structures[edit]Typically, strongly correlated materials have incompletely filled d- or f-electron shells with narrow energy bands.

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The basic approach is that magnetism is one of the manifestations of electron-electron interaction, and its treatment should be part of a general discussion of electron correlation effects.. Lecture Notes On Electron Correlation And Magnetism by Patrick Fazekas, 745, available at Book Depository with free delivery worldwide.. Theories[edit]Extensions to the LDA (LDA+U, GGA, SIC, GW, etc) as well as simplified models Hamiltonians (e.. Strongly correlated materials are a wide class of heavy fermion compounds that include insulators and electronic materials, and show unusual (often technologically useful) electronic and magnetic properties, such as metal-insulator transitions, half-metallicity, and spin-charge separation.. The perovskite structure of BSCCO, a high-temperature superconductor and a strongly correlated material.

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Thus, strongly correlated materials have electronic structures that are neither simply free-electron-like nor completely ionic, but a mixture of both.. g Hubbard-like models) have been proposed and developed in order to describe phenomena that are due to strong electron correlation.. g high-Tc, spintronic materials, multiferroics, Mott insulators, spin Peierls materials, heavy fermion materials, quasi-low-dimensional materials, etc.. [1] Theoretical models of the electronic (fermionic) structure of strongly correlated materials must include electronic (fermionic) correlation to be accurate.. Transition metal oxides[edit]Many transition metal oxides belong into this class[2] which may be subdivided according to their behavior, e. [Best Cloud Mining Ethereum Terpercaya Meaningful Tattoos](#)

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g $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ Other ordering or magnetic phenomena and temperature-induced phase transitions in many transition-metal oxides are also gathered under the term 'strongly correlated materials'. However, strong Coulomb repulsion (a correlation effect) between d-electrons makes NiO instead a wide-band gap insulator. [Bauhaus Medium Font Free Download Mac](#)

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The single most intensively studied effect is probably high-temperature superconductivity in doped cuprates, e.. The essential feature that defines these materials is that the behavior of their electrons or spinons cannot be described effectively in terms of non-interacting entities.. 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.. As of recently, the label Quantum Materials is also used to refer to Strongly Correlated Materials, among others.. 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). 0041d406d9 [Logitech Mx Master Download Mac](#)

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