

Conductor Insulator Quantum Phase Transitions

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Conductor Insulator Quantum Phase Transitions

Conductor-Insulator Quantum Phase Transitions Vladimir Dobrosavljevic, Nandini Trivedi, and James M. Valles, Jr. Abstract. 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.

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Conductor Insulator Quantum Phase Transitions Edited by Vladimir Dobrosavljevic, Nandini Trivedi, and James M. Valles, Jr. Explores topics at the forefront of research on quantum phase transitions; Combines experiment and theory; Focuses on intriguing quantum phases and transitions in metals, superconductors, and insulators

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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 ...

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Could someone provide me with a better explanation on how the metal-insulator transitions might be a quantum phase transitions, e.g. what are the arguments to suspect this? Good references (beside Sachdev's book) are also welcome! Thank you in advance.

Metal-insulator transition a quantum phase transition?

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The Superconductor Insulator Transition is an example of a quantum phase transition, whereupon tuning some parameter in the Hamiltonian, a dramatic change in the behavior of the electrons occurs. The nature of how this transition occurs is disputed, and many studies seek to understand how the order parameter, ψ , changes. Here is the amplitude of the order parameter, and is the phase.

Superconductor Insulator Transition - Wikipedia

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5. Conclusion. In this paper, we have studied the superconductor-insulator quantum phase transition in two-dimensional systems. We mainly considered the effect of disorder-enhanced randomness in an on-site chemical potential on the superconductivity of 2D thin films.

Disorder-Induced Superconductor-Insulator Transition

This Overview provides a general introduction to metal-insulator transitions, with focus on specific mechanisms that can localize the electrons in absence of magnetic or charge ordering, and produce well defined quantum critical behavior. The Overview contrasts the physical picture of Mott, who emphasized the role of electron-electron interactions, and that of Anderson, who stressed the ...

Introduction to Metal-Insulator Transitions - Oxford ...

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