

Conductor Insulator Quantum Phase Transitions

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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.

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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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Conductor Insulator Quantum Phase Transitions Vladimir Dobrosavljevic , Nandini Trivedi , James M. Valles Jr. 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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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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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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Such phase transitions should allow researchers to develop entirely new switching elements for next-generation electronics that are faster and potentially more energy efficient than present-day ...

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