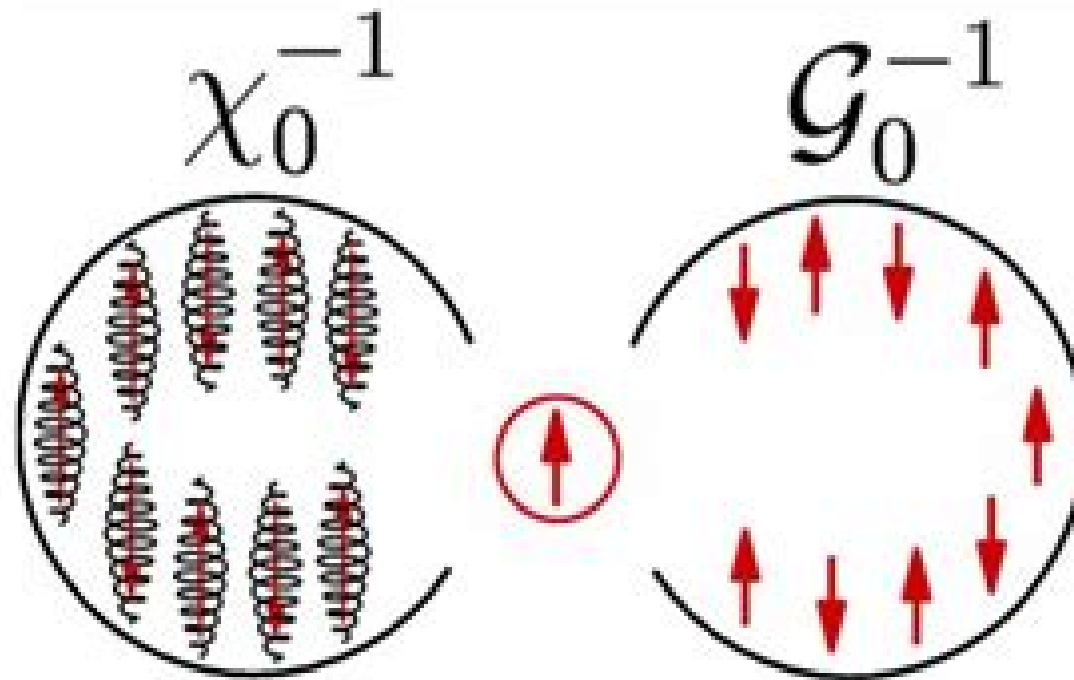


Diagrammatic Theory of Strongly Correlated Electron Systems



Strongly Correlated Electron Systems

F Rizvi



Strongly Correlated Electron Systems:

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DMFT approach This method combines the advantages of the local density approximation LDA which provides a realistic ab initio description for many materials with the correct treatment of the local correlations within dynamical mean field theory DMFT The self consistent equations of the DMFT are solved with an auxiliary field quantum Monte Carlo algorithm In particular the metallic and insulating phase of V₂O₃ and the peculiarities of its metal insulator transition are explored Furthermore the strongly correlated metals SrVO₃ and CaVO₃ are studied as well as LiV₂O₄ which is the first d electron system found to exhibit heavy fermion behavior Where possible the theoretical results are compared with recent experimental data *Strongly correlated electron systems*, 1991

Self-consistent Quantum-Field Theory and Bosonization for Strongly Correlated Electron Systems Rudolf Haussmann, 1999-05-21 This research monograph offers an introduction to advanced quantum field theoretical techniques for many particle systems beyond perturbation theory Several schemes for resummation of the Feynman diagrams are described The resulting approximations are especially well suited for strongly correlated fermion and boson systems Also considered is the crossover from BCS superconductivity to Bose Einstein condensation in fermion systems with strong attractive interaction In particular a field theoretic formulation of bosonization is presented it is published here for the first time This method is applied to the fractional quantum Hall effect to the Coulomb plasma and to several exactly solvable models

Studies of Strongly Correlated Electron Systems Yen Lee Loh, 2005

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