

Strong Coupling Theory Of High Temperature Superconductivity

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This book presents one approach, the strong-coupling or bipolaron theory, which proposes that high-temperature superconductivity originates from competing Coulomb and electron-phonon interactions. The author provides a thorough overview of the theory, describing numerous experimental observations, and giving detailed mathematical derivations of key theoretical findings at an accessible level.

Strong-Coupling Theory of High-Temperature ...
accepted theory to explain its origin this book presents one approach the strong coupling or bipolaron theory which proposes that high temperature superconductivity however despite being over a quarter of a century since its discovery there is still no single accepted theory to explain its origin this book presents one approach the strong

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Strong Coupling Theory Of High Temperature Superconductivity Uploaded By Hermann Hesse, the observation of high temperature superconductivity in complex layered cuprates by bednorz and muller must now rate as one of the greatest experimental discoveries of the last century identifyin the seminal work by bardeen cooper and

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the strong coupling or bipolaron theory which proposes that high temperature superconductivity originates from competing coulomb and we examine the low temperature states supported by the quasiperiodic host guest structure of elemental bismuth at high pressure bi iii our electronic transport and magnetization experiments establish bi iii

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regime strong coupling theory of high temperature superconductivity high temperature superconductivity has transformed the landscape of solid state science leading to the discovery of new classes of materials states of matter and concepts however despite being over a quarter of a century since its dis the observation of high temperature

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Strong-coupling theory of high-temperature superconductivity. [A S Alexandrov] -- Written for researchers and academics, this monograph provides a detailed introduction to the strong-coupling theory of high-temperature superconductivity.

Strong-coupling theory of high-temperature ...
We argue that the extension of the BCS theory to the strong-coupling regime describes the high-temperature superconductivity of cuprates and the colossal magnetoresistance (CMR) of ferromagnetic oxides if the phonon dressing of carriers and strong attractive correlations are taken into account.

Strong-coupling theory of high-temperature ...
Identifying and understanding the microscopic origin of high-temperature superconductivity stands as one of the greatest theoretical challenges of this century. These lectures describe an approach, based on the extension of the BCS theory to the strong-coupling regime with small polarons and bipolarons.

Strong-coupling theory of high-temperature ...
If the coupling constant is of order one or larger, the theory is said to be strongly coupled. An example of the latter is the hadronic theory of strong interactions (which is why it is called strong in the first place). In such a case, non-perturbative methods need be used to investigate the theory.

Coupling constant - Wikipedia
Theory of Superconductivity: From Weak to Strong Coupling leads the reader from basic principles through detailed derivations and a description of the many interesting phenomena in conventional and high-temperature superconductors. The book describes physical properties of novel superconductors, in particular, the normal state, superconducting crit

Theory of Superconductivity | From Weak to Strong Coupling
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Written for researchers and academics, this monograph provides a detailed introduction to the strong-coupling theory of high-temperature superconductivity.

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High-temperature superconductivity has transformed the landscape of solid state science, leading to the discovery of new classes of materials, states of matter, and concepts. However, despite being over a quarter of a century since its discovery, there is still no single accepted theory to explain its origin. This book presents one approach, the strong-coupling or bipolaron theory, which proposes that high-temperature superconductivity originates from competing Coulomb and electron-phonon interactions. The author provides a thorough overview of the theory, describing numerous experimental observations, and giving detailed mathematical derivations of key theoretical findings at an accessible level. Applications of the theory to existing high-temperature superconductors are discussed, as well as possibilities of liquid superconductors and higher critical temperatures. Alternative theories are also examined to provide a balanced and informative perspective. This monograph will appeal to advanced researchers and academics in the fields of condensed matter physics and quantum-field theories.

Theory of Superconductivity: From Weak to Strong Coupling leads the reader from basic principles through detailed derivations and a description of the many interesting phenomena in conventional and high-temperature superconductors. The book describes physical properties of novel superconductors, in particular, the normal state, superconducting crit

This volume contains contributions to the workshop, which was largely focused on the strong coupling gauge theories in search for theories beyond the standard model, particularly, the LHC experiments and lattice studies of conformal fixed point. The main topics include walking technicolor and the role of conformality in view of the 125 GeV Higgs as a light composite Higgs (technidilaton, and other composite Higgs, etc.). Nonperturbative studies like lattice simulations and stringy/holographic approaches are extensively discussed in close relation to the phenomenological studies. After the discovery of 125 GeV Higgs at LHC, the central issue of particle physics is now to reveal the dynamical origin of the Higgs itself. One of the possibilities would be the composite Higgs based on the strong coupling gauge theory in the TeV region, such as the technidilaton predicted in walking technicolor with infrared conformality. The volume contains, among others, many of the latest important reports on walking technicolor and related subjects in the general context of conformality, in a way of direct relevance to the LHC phenomenology as well as the lattice studies. It is very timely to study full theoretical implications in the exciting era when the LHC is vigorously working. This volume is of great importance for that purpose. Speakers of 40 talks (plus posters) include K-I Aoki, Y Aoki, K Bamba, E Bennet, R S Chivukula, H Georgi, A Hasenfratz, D-K Hong, K Itoh, D Elander, G Fleming, H Fukano, Y Iwasaki, M Jarvinen, D Kadoh, S Kim, R Kitano, K-I Kondo, J Kuti, D Lin, N Maru, H Matsufuru, S Matsuzaki, K-I Nagai, C Nonaka, H Ohki, E Pallante, M Rho, E Rinaldi, F Sannino, D Schaich, A Shibata, R E Shrock, E H Simmons, K Tuominen, C H Wong, N Yamada, M J S Yang, and K Yamawaki.

This volume includes discussion on new dynamical features in the light of (deconstructed/latticized) extra dimensions, holographic QCD, Moose/hidden local symmetry, and so on. New insights into the QCD as a prototype of strong coupling gauge theories as well as in its own right, particularly in hot and dense matter are included. Sample Chapter(s). The String in an Excited Baryon (230 KB). Contents: The String in an Excited Baryon (G 't Hooft); Mesons and Baryons from String Theory (S Sugimoto); Toy Model for Mixing of Two Chiral Nonets (A H Fariborz et al.); Strongly Interacting Matter at RHIC (C Nonaka); QED Corrections to Hadron and Quark Masses (Y Namekawa); Little Higgs M-Theory (H-C Cheng); Toward a Top-Mode ETC (H Fukano & K Yamawaki); On Cyclic Universes (P H Frampton); Large Gauge Hierarchy in Gauge0CoHiggs Unification (K Takenaga); Partially Composite Two Higgs Doublet Model (P Ko); and other papers. Readership: Graduate students, academics and researchers in theoretical particle physics."

Readership: Graduate students and researchers in high energy physics, particularly those interested in dynamical symmetry breaking and effective field theories.

The book is an edited volume of different perspectives on the South Asian region and captures the political, social and economic challenges facing the region following the financial crisis and the region's responses to these challenges.

This is the proceedings of the third Nagoya workshop on Strong Coupling Gauge Theories (SCGT), after SCGT 88 and SCGT 90. As a tradition of the Nagoya SCGT workshops, the focus is on dynamical symmetry breaking with particular emphasis on the nontrivial fixed points and/or large anomalous dimension, which was actually the basis of walking technicolor, strong ETC technicolor and top quark condensate, etc. Special attention is also paid to the fixed point structure in supersymmetric gauge theories, which has recently been highlighted through duality arguments.

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