

## Strong Coupling Theory Of High Temperature Superconductivity

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The boson pairing condensation, on the other hand, is not disturbed by the z-term. Therefore when the field  $\sim^8$  is disordered, we have the boson pair condensation and finite superfluidity density  $\rho_s$ . 3. Conclusions We have studied the aspects of strong coupling in gauge theory of high-Tc cuprates.

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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.

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We employ Bloch-Redfield-Wangsness (BRW) theory [16, 17] to obtain master equations describing the system dynamics under strong coupling. The final master equations only contain a few Lindblad terms, with rates determined by the product of (i) the bath spectral density at the corresponding transition frequency and (ii) algebraic prefactors obtained from transforming the system into its ...

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We have extended the BCS theory to the strong-coupling regime, where carriers are small lattice polarons and bipolarons. Attractive electron correlations are caused by an almost unretarded electron-phonon interaction (EPI) sufficient to overcome the direct intersite Coulomb repulsion in this regime. Here I present our recent theoretical results, which in conjunction with a number of ...

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Weak and strong coupling. In a quantum field theory with a dimensionless coupling  $g$ , if  $g$  is much less than 1, the theory is said to be weakly coupled. In this case, it is well described by an expansion in powers of  $g$ , called perturbation theory. If the coupling constant is of order one or larger, the theory is said to be strongly coupled.

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High Energy Physics - Theory. arXiv:2010.05574 (hep-th) [Submitted on 12 Oct 2020] Title: Entanglement Entropy: Non-Gaussian States and Strong Coupling. Authors: Jose J. Fernandez-Melgarejo, Javier Molina-Vilaplana. Download PDF

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High Energy Physics - Theory. arXiv:hep-th/9408074 (hep-th) [Submitted on 12 Aug 1994 , last revised 1 Sep 1994 (this version, v2)] Title: A Strong Coupling Test of S-Duality. ... we make an exact strong coupling test of the Montonen-Olive strong-weak duality conjecture.

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Wallraff, A. et al. Strong coupling of a single photon to a superconducting qubit using circuit quantum electrodynamics. Nature 431 , 162-167 (2004) ADS CAS Article Google Scholar

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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.

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