

quantum ising phases and pdf

Abstract. Understanding magnetic phases in quantum mechanical systems is one of the essential goals in condensed matter physics, and the advent of prototype quantum simulation hardware has provided new tools for experimentally probing such systems.

Phase transitions in a programmable quantum spin glass

In theoretical physics, quantum field theory (QFT) is a theoretical framework that combines classical field theory, special relativity, and quantum mechanics: xi and is used to construct physical models of subatomic particles (in particle physics) and quasiparticles (in condensed matter physics).. QFT treats particles as excited states (also called quanta) of their underlying fields, which are ...

Quantum field theory - Wikipedia

In theoretical physics, quantum chromodynamics (QCD) is the theory of the strong interaction between quarks and gluons, the fundamental particles that make up composite hadrons such as the proton, neutron and pion. QCD is a type of quantum field theory called a non-abelian gauge theory, with symmetry group SU(3). The QCD analog of electric charge is a property called color.

Quantum chromodynamics - Wikipedia

Page 2 MEYDI FERRIER Laboratoire de Physique des Solides ∞ Quantum noise measurement and universal quantum fluctuations in a Kondo-Correlated Quantum Dot out-

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Quasiparticles and collective modes are two fundamental aspects that characterize a quantum matter in addition to its ground state features. For example, the low energy physics for Fermi liquid phase in He-III was featured not only by Fermionic quasiparticles near the chemical potential but also by fruitful collective modes in the long-wave limit, including several different sound waves that ...

Condensed Matter authors/titles "new" - arXiv

Novel nitrene insertion. An intramolecular insertion reaction of Rh ∞ nitrene into amide C \hat{N} and sulfonamide S \hat{N} bonds has been developed (see figure) via the unprecedented formation of an N + \hat{N} \hat{N} ylide from the Rh ∞ nitrene and the amide nitrogen. Experimental and theoretical analyses of the reaction mechanism have also been conducted and support the ylide pathway.

Chemistry ∞ A European Journal: Early View

Theoretical study on volume law of Rényi entanglement entropy in quantum many-body systems: Y. Nakagawa, The University of Tokyo (2018).

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