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supercooled and superheated, have been determined in recent years, and highly anomalous behavior has been found near the limiting temperatures in each case. For example, the heat capacities increase exponentially at each extreme. In the high temperature extreme this behavior is

Abstract The thermodynamics of quantum chromodynamics at low temperatures and in sufficiently strong magnetic fields is governed by neutral pions. We analyze the interacting system of neutral pions and photons at zero baryon chemical potential using effective field theory.

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Anomalous low-temperature thermodynamics of QCD in strong ... Anomalous low-temperature thermodynamics of QCD in strong magnetic fields. Journal of High Energy Physics, Nov 2017 Tomá? Brauner, Saurabh V. Kadam. Tomá? Brauner. Saurabh V. Kadam. The thermodynamics of quantum chromodynamics at low temperatures and in sufficiently strong

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We study thermodynamics of strongly coupled

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stabilization (hyperageing) process on the low-temperature glassy properties, i.e. boson peak and two-level systems.

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approximation. Analytic temperature dependence of the quark condensate is found in perfect agreement with the numerical calculations obtained at the three-loop level of the chiral perturbation ...

Quark matter or QCD matter (quantum chromodynamic) refers to any of a number of hypothetical phases of matter whose degrees of freedom include quarks and gluons, of which the prominent example is quark-gluon plasma. Several series of conferences in 2019, 2020, and 2021 are devoted to this topic. Quarks are liberated into quark matter at extremely high temperatures and/or densities, and some of ...

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Moreover, there is a very strong influence of the magnetic field on the low-temperature thermodynamics including an enhanced magnetocaloric effect. We consider the Heisenberg sawtooth spin chain with

ferromagnetic zigzag bonds J_1 and competing antiferromagnetic basal bonds J_2 .

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in perfect agreement with the numerical calculations obtained at the three-loop level of the chiral perturbation ...

With regard to the nature of the finite-temperature QCD phase transition and the fate of the chiral and anomalous axial symmetries associated with it, we present in this thesis two parallel sets of investigations into the QCD phase transition region between 139 and 195 MeV. Both studies adopt the Iwasaki gauge action augmented with the dislocation suppression determinant ratio with 2+1 flavors ...

HDL-resummed low-T entropy total 10^{-3} 10^{-2} 10^{-1} low-temperature expansion to order $T \ln T$ $T^{5/3}$ $T^{7/3}$ $T^3 \ln T$, resp. . perturbative result for g_{eff}^2 T g_{eff}^2 g_{eff}^2

Leading term of interaction entropy for $T \gg \Lambda_{\text{QCD}}$
Anomalous low-temperature series is applicable only for $T \gg \Lambda_{\text{QCD}}$
low-temperature series is contained in

Improving AdS/QCD ~ We will use input from both string theory and the gauge theory (QCD) in order to provide an improved phenomenological holographic model for real world QCD. ~ This is an exploratory adventure, and we will short-circuit several obstacles on the way. ~ As we will see, we will get an interesting perspective on the physics of pure glue as well as on the quark sector.

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.

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Jan 01, 2016 · It leads to the critical temperature of QGP-phase transition corresponding to the points of vanishing chemical potential which implies the vanishing baryon density according to equation . Thus, the critical temperatures in infrared sector of

QCD for the present case as obtained by Fig. 2 are; 0.171 GeV, 0.136 GeV and 0.105 GeV for $\beta_s = 0.22, 0.47$ and 0.96 respectively.

May 01, 2008 · OSTI.GOV Journal Article:
Thermodynamics and critical behavior in the Nambu-Jona-Lasinio model of QCD

We study the dependence of thermodynamics and the CP-odd transport in QCD in the deconfined phase at finite temperature and magnetic field in the limit of large QCD coupling constant and large number of colors N_c . In this limit, the gauge-gravity duality [13{15] allows one to study the theory by mapping it to a gravitational theory in

QCD & Chiral Symmetry * Spontaneously

broken chiral symmetry in the vacuum is a fundamental property of QCD. * A chirally symmetric quark-gluon plasma at high temperature is also a fundamental property of QCD! Different frontiers are intrinsically connected: they are described by the SAME QCD, with the SAME set of fundamental symmetries.

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