

## Anomalous Low Temperature Thermodynamics Of Qcd In Strong

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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. As a consequence of the axial anomaly and the external magnetic field, the pions and photons mix with one another.

[1706.04514] Anomalous low temperature thermodynamics of ...

Title: Anomalous low-temperature thermodynamics of QCD in strong magnetic fields. Authors: Tomas Brauner, Saurabh Kadam (Submitted on 14 Jun 2017 , last revised 13 Nov 2017 (this version, v2)) Abstract: The thermodynamics of quantum chromodynamics at low temperatures and in sufficiently strong magnetic fields is governed by neutral pions. We ...

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Anomalous low-temperature thermodynamics of QCD in strong magnetic fields. Journal of High Energy Physics, Nov 2017 Tomáš Brauner, Saurabh V. Kadam. Tomáš Brauner. Saurabh V. Kadam. The thermodynamics of quantum chromodynamics at low temperatures and in sufficiently strong magnetic fields is governed by neutral pions. ...

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Anomalous low-temperature thermodynamics of QCD in strong magnetic fields . By Tomáš Brauner and Saurabh V. Kadam. Cite . BibTex; Full citation; Publisher: Springer Nature. Year: 2017. DOI identifier: 10.1007/jhep11(2017)103. OAI identifier: Provided by: MUCC ...

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Anomalous low-temperature thermodynamics of QCD in strong magnetic fields Article (PDF Available) in Journal of High Energy Physics 2017(11) · June 2017 with 61 Reads How we measure 'reads'

(PDF) Anomalous low temperature thermodynamics of QCD in ...

low-temperature anomalous thermodynamics of pure water while exhibiting a second, liquid-liquid critical point [P. H. Poole et al., Phys. Rev. Lett. 73, 1632 (1994)] is extended to dilute solutions of

Anomalous Low Temperature Thermodynamics Of Qcd In Strong

Abstract We show that a linear specific heat at low temperatures for glass follows naturally from general considerations on the glassy state. From the same considerations we obtain the experimentally observed anomalous low-temperature thermal conductivity, and we predict an ultrasonic attenuation which increases at low temperatures.

Anomalous low temperature thermal properties of glasses ...

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 J1 and competing antiferromagnetic basal bonds J2.

Anomalous thermodynamics of a quantum spin system with ...

Original version Brauner, T., Kadam, S. (2017) Anomalous low-temperature thermodynamics of QCD in strong magnetic fields. Journal of High Energy Physics (JHEP). 2017(103) .

UiS Brage: Anomalous low temperature thermodynamics of QCD ...

Anomalous thermodynamics of a quantum spin system with large residual entropy is approximated by its spectral representation in a Krylov space spanned by the N L Lanczos vectors starting from the respective random vector | $\psi$ . Then the FTLM approximation of the partition function is given by  $Z(T) \approx \int_0^\infty e^{-\beta E} \rho(E) dE$  where  $\rho(E) = \frac{1}{N} \text{Tr}[\delta(E - H)]$  and  $\rho(E) \approx \frac{1}{N} \sum_{n=1}^N \exp(-\beta E_n) \approx \frac{1}{N} \exp(-\beta \langle E \rangle)$

Anomalous thermodynamics of a quantum spin system with ...

The study of chain lengths up to  $N=36$  allows a careful finite-size analysis. At the flat-band point we find extremely small finite-size effects for spin  $s=1/2$ , i.e., the numerical data virtually correspond to the thermodynamic limit. In all other cases the finite-size effects are still small and become visible at very low temperatures.

[2009.05809] Anomalous thermodynamics of a quantum spin ...

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Anomalous Low Temperature Thermodynamics Of Qcd In Strong

Unconventional superconductors are most frequently identified by the observation of power-law behavior on low-temperature thermodynamic or transport properties, such as specific heat. Here, we show that, in addition to the usual point and line nodes, a much wider class of different nodal types can occur.

Anomalous thermodynamic power laws near topological ...

The density maximum of water dominates the thermodynamics of the system under ambient conditions, is strongly P-dependent, and disappears at a crossover pressure  $P_{\text{cross}} \approx 1.8$  kbar. We study this variable across a wide area of the T–P phase diagram. We consider old and new data of both the isothermal compressibility  $K_T(T, P)$  and the coefficient of thermal expansion  $\alpha(T, P)$ .