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[1708.08861] Bose polarons at finite temperature and ...

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[2010.14729] Ultradilute self-bound quantum droplets in ...

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Thermal quantum field theory. In theoretical physics, thermal quantum field theory (thermal field theory for short) or finite temperature field theory is a set of methods to calculate expectation values of physical observables of a quantum field theory at finite temperature. In the Matsubara formalism, the basic idea (due to Felix Bloch) is that the expectation values of operators in a canonical ensemble.

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Thermal quantum field theory - Wikipedia

When the temperature of the gas is finite  $T_{BEC} > T > 0$  K, the trapped Bose gas is composed of two distinct components: the high-density condensate, being localized at the center of the trapping potential, and the low-density cloud of thermally excited atoms,

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Fundamental limits on low-temperature quantum thermometry with finite resolution. Patrick P. Potts, Jonatan Bohr Brask, and Nicolas Brunner. Department of Applied Physics, University of Geneva, Switzerland. ... Precision measurements of temperature and chemical potential of quantum gases. Phys. Rev. A 88, 063609 (2013).

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Fundamental limits on low-temperature quantum thermometry ...  
In Section 2, we will introduce the finite-temperature HFBP model for trapped dipolar Bose gases with two- and three-body interactions. In Section 3 , we look at excitations of homogeneous gas and derive useful analytical expressions for the quantum and thermal fluctuations that depend on the two-body contact

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