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An effective field theory for QCD thermodynamics

Tuesday, February 7, 2017 2:20 PM (20 minutes)

We develop an effective field theory for QCD at finite temperature which takes into account the global symmetries of the problem, including the fact that Lorentz invariance is broken. We discuss regularization and fixing of parameters in the theory. Some of the predictions of the theory are presented, for example the curvature of the critical line. The degree of agreement between the predictions and lattice results shows both that such an approach captures much of the essential physics, and could be useful to discover the nature of the major remaining corrections.

Preferred Track

QCD at High Temperature

Collaboration

Not applicable

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