

# QCD at finite temperature and density within functional renormalization group approach

*Monday, 1 November 2021 14:00 (30 minutes)*

In this talk, I would like to discuss recent progress in studies of QCD at finite temperature and densities within the functional renormalization group (fRG) approaches, e.g., the QCD phase structure, QCD equation of state, baryon number fluctuations, spectral functions, real-time dynamics, etc. The relevant results are compared with those obtained from recent lattice simulations. The fRG is a nonperturbative continuum field theory, which is well suited for computation of QCD thermodynamics. Quantum, thermal and density fluctuations are encoded successively through running of the renormalization group scale in the fRG approach.

**Presenter:** Prof. 付, 伟杰 (大连理工大学)

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