Phase Structure of Lattice QCD with Wilson and Neuberger Quarks at Finite Temperature and Density

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Abstract: We present new results for lattice QCD at finite temperature and density from numerical simulations with dynamical Wilson quarks; The dependence of the phase structure on the quark mass and flavor number is investigated. We also discuss the phase diagram for lattice QCD with overlap fermions; For two flavors, we find a tricritical point on the (T, μ) plane.