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Study of finite temperature QCD with 2+1 flavors via Taylor expansion and imaginary chemical potential

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We study QCD with 2+1 flavors at nonzero temperature and nonzero chemical potential. We present preliminary results obtained from lattice calculations performed with an improved staggered fermions action (p4-action) on lattice with temporal extent $N_t = 4$ on a line of constant physics with the strange quark mass adjusted to its physical value and the pion mass of about 220 MeV. We focus our study on a range of temperatures $0.937 < T/T_c < 1.072$.

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talk

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