

Preliminary results for the confining/deconfining transition of QCD up to large μ/T

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We perform CLE simulations both in the confining and in the deconfining phases of QCD at large temperature and in a wide chemical potential domain (up to $\mu/T \sim 10$). We show preliminary results for the deconfining transition at $\beta = 5.9$ for 2 flavors of Wilson fermions. Most of the data are taken at rather large quark masses ($m_\pi \sim 1\text{GeV}$) and small spatial volumes (8^3 and 12^3). This and the statistics do not at present permit describing the character of the transition. These limitations are mainly due to computer time availability and we hope to soon improve on them. Some further tests on the method are also discussed.

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