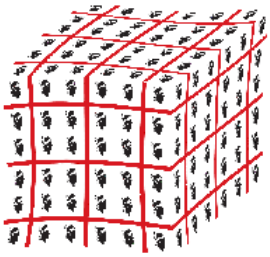

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Towards the N_{f}=2 deconfinement transition temperature with O(a) improved Wilson fermions

Monday, 14 June 2010 17:40 (20 minutes)

A lot of effort in lattice simulations over the last years has been devoted to studies of the QCD deconfinement transition. Most state-of-the-art simulations use so called rooted staggered fermions, and are also affected by systematic uncertainties, such as coarse lattices and heavy sea quarks. Therefore it is important to probe the transition with other fermion actions and improve on systematics. I report on an ongoing study of the transition, using two degenerate flavours of nonperturbatively O(a) improved Wilson fermions. We start with N_{t}=12 lattices, aiming at chiral and continuum limit with very light quarks and lattices up to N_{t}=20.

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talk

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