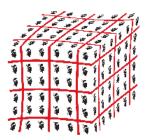
Lattice2010



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Non-perturbative running of the coupling from four-flavour lattice QCD with staggered quarks

Tuesday, 15 June 2010 17:20 (20 minutes)

Using the Schroedinger functional (SF) with a single staggered fermion field we calculate the SF coupling in four-flavour QCD for a wide range of energies and lattice sizes up to L/a = 16. Preliminary results for the continuum extrapolation of the step-scaling function are presented. To reduce cutoff effects, one-loop O(a) improvement has been implemented. Various cross checks are made possible by the use of two independent sets of lattices with either T = L + a or T = L - a.

Please, insert your presentation type (talk, poster)

Talk

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