Stout smearing for twisted mass

Presenter: Karl Jansen — DESY

Karl Jansen

The effect of stout smearing is investigated in numerical simulations with twisted mass Wilson quarks. The change of the phase transition near zero quark mass is studied on $12^3 \cdot 24$ and $16^3 \cdot 32$ lattices at a lattice spacing $a \simeq 0.125$ fm. The renormalisation of bare parameters is compared to runs without smearing for $N_f = 2$ and $N_f = 2 + 1 + 1$ dynamical quark flavours.