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## The continuum limit of hadronic correlation functions in the deconfined phase of an SU(3) gauge theory

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We explore properties of hadronic excitations at high temperature in the chiral limit by investigating hadron correlation functions in the deconfined phase of quenched QCD. This is achieved by performing a systematic analysis of the influence of cut-off effects on light quark meson correlators at  $T = 1.5T_c$  using clover improved Wilson fermions on quenched gauge field configurations.\

The correlation functions are calculated at four values of the lattice cut-off, i.e. on lattices of size  $128^3 \times N_\tau$  with  $N_\tau = 16, 24, 32$  and  $48$ . Whereby we check that finite volume effects are small compared to the significant cut-off dependence observed in the correlation functions.

The continuum extrapolation of these correlators are seen to be well under control for distances  $0.2 \leq \tau T \leq 0.5$ .\

We discuss consequences for the determination of hadronic spectral functions and the analysis of their low energy structure.

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poster

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