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Cutoff effects and scale determinations in pure gauge theory

Friday 2 August 2024 14:15 (20 minutes)

In this talk we will investigate the approach to the continuum limit using different gauge actions. We will argue that solid and precise QCD calculations need to reach lattice spacings finer than the current standard, or that several actions need to be consider for a proper estimate of the systematic. Flow scales for different actions will be determined. Together with lattice perturbation theory these can be used to extract the pure gauge Lambda parameter from lattice quantities defined at the scale of the cutoff.

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