

Lattice 2024



Contribution ID: 276

Type: **Talk**

## 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 considered 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.

**Primary authors:** RAMOS, Alberto (CERN); CATUMBA, Guilherme (IFIC); LANG, Nicolas (Universitat de València, IFIC)

**Presenter:** RAMOS, Alberto (CERN)

**Session Classification:** Standard Model parameters

**Track Classification:** Standard Model Parameters