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The infrared-safe Minkowskian Curci-Ferrari model

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Content

In this presentation, we explore the existence of Landau-pole-free renormalization group trajectories within the Minkowskian version of the Curci-Ferrari model. These trajectories are analyzed as functions of a running parameter q^2, associated with the four-vector q at which renormalization conditions are imposed, allowing for both space-like ($q^2<0$) and time-like ($q^2>0$) values. We also discuss two possible extensions of the infrared-safe scheme. Within this framework, we examine the gluon and ghost propagators in Minkowski space, providing new insights into their behavior at low energies and their structure in the real domain.

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