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Hadronic Vacuum Polarization in QCD and its Evaluation in the Euclidean

mardi 25 avril 2017 16:40 (25 minutes)

I shall discuss a new technique to evaluate integrals of QCD Green's functions in the Euclidean based on their Mellin-Barnes representation. I shall talk about an application to the lowest order Hadronic Vacuum Polarization (HVP) contribution to the anomalous magnetic moment of the muon. It is shown that with a precise determination of the slope and curvature of the HVP function at the origin from lattice QCD, one can already obtain a result which may serve as a test of the determinations based on experimental measurements.

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