

Two-pion contribution to hadronic vacuum polarization

Thursday, September 30, 2021 2:00 PM (20 minutes)

The largest part of the hadronic-vacuum-polarization (HVP) contribution to the muon anomalous magnetic moment is due to the intermediate state of two pions. Analyticity and unitarity do not only allow us to write this contribution in terms of the pion vector form factor (VFF), but also constrain the VFF itself. I will discuss fits of a dispersive representation of the pion VFF to e^+e^- cross-section data and I will comment on the implications of analyticity and unitarity in view of the tension between data-driven evaluations of HVP and recent lattice-QCD results.

What is your topic?

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