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Leading order hadronic contribution to $g-2$ from lattice QCD

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The nonperturbative calculation of the hadronic contributions to the anomalous magnetic moment of the muon is an interesting challenge for QCD, especially in light of the continuing discrepancy between the Standard Model prediction and experimental measurements. We have calculated the leading order hadronic contribution using lattice QCD with pion masses ranging from 600 MeV down to 300 MeV. The systematic errors in such a calculation have been studied with calculations at two lattice spacings and several volumes.

Primary author: Dr RENNER, Dru (DESY, Zeuthen)

Presenter: Dr RENNER, Dru (DESY, Zeuthen)

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