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A derivative based approach for the leading order hadronic contribution to $g-2$ of the muon

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We describe a lattice approach to calculate the leading-order anomalous magnetic moment of the muon. We employ lattice momentum derivatives to determine the hadronic vacuum polarization scalar at low momenta and construct a smooth, integrable function in this momentum region. We present preliminary results for hex-smearred Wilson-quark lattice ensembles.

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