

Summary of *Hadronic-vacuum-polarization contribution to the muon's anomalous magnetic moment from four-flavor lattice QCD*[\[1\]](#)

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III LATTICE-QCD CALCULATION

A Numerical Simulation

B Extraction of Muon Anomaly

C Lattice Corrections and Continuum Extrapolation

IV RESULTS

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B Isospin-Breaking, Electromagnetic, and Quark-Disconnected Contributions

1 $\pi\pi$ Corrections

2 Residual Light-Quark Disconnect Corrections

3 Residual Strong-Isospin Breaking Corrections

4 Residual QED Corrections

5 Total Contribution from u/d Quarks

C Total Leading-Order Contribution

V REFERENCES

Mackenzie, C. McNeile, E. Neil, T. Primer, J. Simone, D. Toussaint, R. S. V. de Water, and A. V. and, “Hadronic-vacuum-polarization contribution to the muon’s anomalous magnetic moment from four-flavor lattice QCD,” *Physical Review D* **101**, 10.1103/physrevd.101.034512 (2020).

¹C. Davies, C. DeTar, A. El-Khadra, E. Gámiz, S. Gottlieb, D. Hatton, A. Kronfeld, J. Laiho, G. Lepage, Y. Liu, P.