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## **A status update of Fermilab/HPQCD/MILC Collaborations muon $g-2$ project**

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We present an update, from the Fermilab Lattice, HPQCD, and MILC collaborations, of our results for the hadronic vacuum polarization contribution to the muon's anomalous magnetic moment. Preliminary results for light-quark-connected contributions to the intermediate and long-distance window quantities employ new, low-mode-improved, data sets on our finest ensembles. We also present updated results for sub-leading contributions. The calculations are performed on  $2+1+1$  highly-improved staggered quark (HISQ) ensembles with physical pion mass at a range of lattice spacings (0.15fm-0.06fm).

### **Topical area**

Quark and Lepton Flavor Physics

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