

## Muon g-2 from lattice QCD

*Wednesday, 17 August 2022 20:45 (25 minutes)*

Fermilab has just announced a new experimental result for muon g-2. The statistical uncertainty of the new result is similar to the previous BNL result and the central value is consistent. The combined value is now 4.2 standard deviations away from the Standard Model prediction. For the Standard Model prediction, the two hadronic contributions, HVP (hadronic vacuum polarization) and HLbL (hadronic light-by-light) are the dominant sources of uncertainty. I will review the lattice calculations in determining these two hadronic contributions.

### Category

**Primary author:** JIN, Luchang (University of Connecticut)

**Presenter:** JIN, Luchang (University of Connecticut)

**Session Classification:** Session 3