



Contribution ID: 74

Type: **not specified**

## Lattice QCD calculations in Muon $g - 2$

Fermilab has measured muon  $g - 2$  to unprecedented precision. The central value agrees with the previous BNL measurement. On the theory side, the main source of uncertainties are from the two hadronic contributions – hadronic vacuum polarization (HVP) and hadronic light-by-light scattering (HLbL). Recent lattice QCD calculations have made a lot of contributions in determining these two contributions. These also lead to a significant shift in the theoretical value of the HVP contribution, which brings the final theoretical prediction of muon  $g - 2$  much closer the experimental measurement. In this talk, I will review these lattice QCD calculations of the hadronic contribution to muon  $g - 2$ .

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

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