

# Connected hadronic contribution to the muon $g-2$ from lattice QCD and QED

*Wednesday, February 15, 2023 12:30 PM (20 minutes)*

By replacing continuous space-time with a Euclidean lattice, lattice gauge theories provide a way to capture the non-perturbative effects in the muon  $g-2$ . We present first results by the RC collaborations towards obtaining a precise estimate of these effects using a novel local description of lattice QCD and QED, based on C boundary conditions in space.

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**Session Classification:** Young Researchers Session