Type: **Talk** 

## Hadronic vacuum polarization from lattice QCD(+QED) with C\* boundary conditions

*Thursday, 21 December 2023 16:30 (30 minutes)* 

Achieving subpercent precision in calculating the hadronic vacuum polarization contribution to the muon g-2 is essential to correctly interpret new experimental results. At this level of precision, electromagnetic effects from charged quarks cannot be neglected. Lattice QCD+QED simulations present unique challenges, primarily due to the long-range nature of electromagnetic interactions. Our collaboration tackles these challenges by implementing lattice QCD+QED simulations with C\* boundary conditions. In this talk, I will outline our specific approach, highlight the benefits it offers, and present our latest progress.

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