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Muon $g-2$: hadronic contributions with lattice QCD

Monday 3 November 2025 09:15 (45 minutes)

The Standard Model prediction for the anomalous magnetic moment of the muon, presented in the 2025 White Paper of the Muon $g-2$ Theory Initiative, is based on consolidated lattice averages for the two leading hadronic contributions, hadronic vacuum polarization and hadronic light-by-light. In this talk, I review the results from lattice QCD+QED calculations that were used in these averages and discuss their construction in the White Paper. I also review the remarkable progress in lattice calculations of these quantities since then, and conclude with an outlook.

Parallel Session (for talks only)

Plenary talk

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