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Lattice calculation of the hadronic light-by-light contribution to the anomalous magnetic moment of the muon and of its light meson components

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In this talk, we present a recent lattice calculation of the hadronic light-by-light scattering contribution to the anomalous magnetic moment of the muon, by the Budapest-Marseille-Wuppertal collaboration. Together with the hadronic vacuum polarization, this is the dominant source of uncertainty in the Standard Model prediction. We will compare our result with previous lattice calculations and with the data-driven dispersive determination before discussing the impact of our calculation in view of the forthcoming final result of the Fermilab experiment.

Secondary track

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