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Lattice Calculation of the Hadronic Light by Light Contributions to the Muon Anomalous Magnetic Moment

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The anomalous magnetic moment of muon, a_μ , is a very precisely measured quantity. However, the current measurement disagrees with standard model by about 3σ . Hadronic vacuum polarization and hadronic light by light are the two types of processes that contribute most to the theoretical uncertainty. We will discuss the light by light lattice calculation and some strategies of including QED on lattice.

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