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Dispersive approach to hadronic LbL contribution in muon $g-2$

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Summary

I shall present a general dispersive formalism for evaluating the hadronic light-by-light (LbL) scattering contribution
to the anomalous magnetic moment of the muon. In the suggested approach, this correction is related to the imaginary part of the muon's electromagnetic vertex function. The latter may be directly related to measurable hadronic processes
by means of unitarity and analyticity. As a test we apply the introduced formalism to the case of meson pole exchanges and find
agreement with the direct two-loop calculation.

Presenter: VANDERHAEGHEN, Marc

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