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Dispersion relation for hadronic light-by-light scattering and the muon g-2

Thursday 29 September 2016 11:50 (35 minutes)

Summary

I will describe recent progress in approaching the calculation of the hadronic light-by-light contribution to $(g-2)_\mu$ with dispersive methods. I will discuss general properties of the four-point function of the electromagnetic current in QCD, its Lorentz decomposition and dispersive representation. New results concerning the contribution of D and higher waves and some very preliminary numerical results will be presented. I will conclude with an outlook for this approach to the calculation of hadronic light-by-light.

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Session Classification: Muon g-2