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Dispersive treatment of the hadronic light-by-light contribution to $(g-2)_\mu$

Friday, July 3, 2015 8:45 AM (40 minutes)

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 first discuss general properties of the four-point function of the electromagnetic current in QCD, its Lorentz decomposition and dispersive representation. For what concerns the pseudoscalar pole contributions, I will give an overview of the determination of the pseudoscalar transition form factors. I will then consider the pion-loop contribution and discuss the recently proposed Mandelstam representation thereof.

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