

Dispersive Analysis of Hadronic Light-by-Light Scattering and the Muon's ($g-2$)

Wednesday, May 30, 2018 2:40 PM (20 minutes)

In my talk, I will present our recent dispersive analysis of the $\gamma\gamma^* \rightarrow \pi\pi, \pi\eta$ processes from the threshold up to 1.4 GeV in the two photon invariant mass. These amplitudes serve as important input to constrain the hadronic piece of light-by-light scattering contribution to ($g-2$) and support the current experimental program at BESIII. As well, I will present an application of the light-by-light scattering sum rules to the $\gamma\gamma^*$ -production of mesons in light of the new data by the Belle Collaboration on the transition form factors.

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