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Hadronic light-by-light scattering and the muon's (g-2)

Monday 19 February 2018 17:30 (30 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.

Presenter: DANILKIN, Igor (U Mainz)