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Pion Pole Contribution to HLbL from Twisted Mass Lattice QCD at the physical point

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We report on our computation of the pion transition form factor $\mathcal{F}_{\pi\to\gamma^*\gamma^*}$ from twisted mass lattice QCD, to determine the numerically dominant light pseudoscalar pole contribution for the analysis of hadronic light-by-light scattering in the muon $g-2$. The pion transition form factor is computed directly at the physical point. We present first results for our estimate of the pion pole contribution to a_μ with kinematic setup of the pion at rest at a single lattice spacing.

Primary authors: BURRI, Sebastian Andreas (Universität Bern); WENGER, Urs; PETSCHLIES, Marcus (HISKP, Bonn University); GASBARRO, Andrew David (Universität Bern)

Presenter: BURRI, Sebastian Andreas (Universität Bern)

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