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Pseudoscalar transition form factors and the hadronic light-by-light contribution to the muon g-2

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Transition form factors of light pseudoscalar mesons (π^0, η and η') play a crucial role in computing the hadronic light-by-light contribution to the muon anomalous magnetic moment.

We present first results toward the extraction of these form factors using lattice QCD with staggered fermions on $N_f = 2 + 1 + 1$ gauge ensembles of the Budapest-Marseille-Wuppertal collaboration. The first part of the talk will focus on the spectroscopy of the three mesons. In the second, we will expound on our strategy to extract the form factors.

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