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Recent Results on Light Meson Decays at BES III

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We report on BESIII measurements of the timelike pion form factor obtained via the initial state radiation technique, the decays of η' into the final states $\pi^+\pi^-\gamma$, $e^+e^-\gamma$ as well as the observation of the η' decay into ωe^+e^- .

Summary

We report on recent results from the BESIII collaboration in the field of light meson physics with primary focus on measurements of transition form factors as well as studies of the decay dynamics of η' mesons. The new results include measurements of the Dalitz decay of η' , the observation of its decay into ωe^+e^- as well as a new high statistics measurement of the anomalous decay into $\pi^+\pi^-\gamma$.

Those investigations have been shown to be of relevance for an improved theoretical determination of the hadronic light-by-light contribution to the anomalous magnetic moment of the muon, $g - 2$. In that context, we also report on a new precision measurement of the pion form factor, which is of utmost importance for the hadronic vacuum polarization contribution of the muon $g - 2$.

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