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Transition Form Factor Measurements at BESIII

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Motivated by the recent developments in data-driven approaches to improve the hadronic light-by-light scattering calculations of the Standard Model prediction of the anomalous magnetic moment of the muon a_μ , the BESIII collaboration has embarked on a dedicated two-photon physics program. The momentum dependence of transition form factors of single pseudoscalar mesons, as well as of multi-meson systems is studied. Based on the high statistics data, collected at the τ -charm factory BESIII operated at the BEPCII accelerator in Beijing, the information can be provided in the relevant momentum region for a_μ . In this presentation we discuss recent results, the current status of ongoing measurements, and the prospects for $\gamma\gamma$ collision studies at BESIII.

Summary

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