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New Results on Low-Energy Exclusive Hadronic Cross Sections from BaBar and Implications for g-2 of the Muon

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The BABAR Collaboration has an extensive program studying hadronic cross sections in low-energy e^+e^- collisions, accessible through the selection of events with initial-state photon radiation. The measurements allow significant improvements in the precision of the standard model prediction for the muon anomalous magnetic moment. Recent results on the $\pi^+\pi^-\pi^0\pi^0$ final state and on $KK\pi\pi$ final states are presented. The $\pi\pi\pi\pi$ channel is one of the most important for the muon g-2 calculation, while our measurements of the $KK\pi\pi$ channels obviate the need to rely on isospin relations and greatly improve the results in these channels.

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