

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

*Thursday, 31 May 2018 17:10 (20 minutes)*

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.

### E-mail

bill.gary@ucr.edu

### Collaboration name

BaBar

**Primary author:** Prof. GARY, Bill (University of California, Riverside)

**Presenter:** Prof. GARY, Bill (University of California, Riverside)

**Session Classification:** PPHI / TSEI

**Track Classification:** PPHI