

## Low-energy hadronic cross sections measurements at BABAR, and implication for the $g-2$ of the muon

The BABAR Collaboration has an intensive program studying hadronic cross sections in low-energy  $e^+e^-$  annihilations, accessible via initial-state radiation.

Our measurements allow significant improvements in the precision of the predicted value of the muon anomalous magnetic moment.

These improvements are necessary for shedding light on the current  $\sim 3$  sigma difference between the predicted and the experimental values.

We have published results on a number of processes with two to six hadrons in the final state, and other final state are currently under investigation.

We report here on the most recent results obtained by analysing the entire BABAR dataset.

### Summary

**Primary author:** MCKENNA, Janis (University of British Columbia)

**Presenter:** MCKENNA, Janis (University of British Columbia)