

Recent measurements of exclusive hadronic cross sections at BABAR and the implication for the muon $g-2$ calculation

Tuesday, 26 September 2017 17:10 (20 minutes)

The BABAR Collaboration has an intensive program studying hadronic cross sections in low-energy e^+e^- annihilations, which are accessible with data taken near the $\Upsilon(4S)$ 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 ~ 3 sigma difference between the predicted and the experimental values.

We have previously published results on a number of processes with two to six hadrons in the final state. We report here on several recent measurements of hadronic cross sections in e^+e^- annihilations.

Primary author: ANULLI, Fabio (Sapienza Universita e INFN, Roma I (IT))

Presenter: ANULLI, Fabio (Sapienza Universita e INFN, Roma I (IT))

Session Classification: QCD and hadron structure

Track Classification: QCD and hadron structure