



MEETING OF THE AMERICAN PHYSICAL SOCIETY DIVISION OF PARTICLES AND FIELDS

Contribution ID: 182

Type: **Presentation**

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

Tuesday, 1 August 2017 11:39 (18 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.

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Session Classification: QCD

Track Classification: QCD