EPS-HEP2019



Contribution ID: 467 Type: Poster

Recent results on hadronic cross sections measurements at BABARfor the g-2 calculation

Monday, 15 July 2019 18:30 (1h 30m)

A program of measuring the light hadrons production in exclusive $e^+e^-\to$ hadrons processes is in place at BABAR with the aim to improve the calculation of the hadronic contribution to the muon g-2. We present the most recent results obtained by using the full data set of about 470 fb $^{-1}$ collected by the BABAR experiment at the PEP-II e^+e^- collider at a center-of-mass energy of about 10.6 GeV. In particular, we report the results on the channels $e^+e^-\to \pi^+\pi^-\pi^0\pi^0$, $e^+e^-\to \pi^+\pi^-\pi^0\pi^0$ and $e^+e^-\to \pi^+\pi^-\eta$. The first reaction, in particular, presently gives the main uncertainty on the total hadronic cross section in the energy region between 1 and 2 GeV.

Primary authors: ANULLI, Fabio (Sapienza Universita e INFN, Roma I (IT)); DRUZHININ, Vladimir (BINP,

Novosibirsk)

Presenter: DRUZHININ, Vladimir (BINP, Novosibirsk)Session Classification: Wine & Cheese Poster Session

Track Classification: QCD and Hadronic Physics