

# Measurement of hadronic cross sections with the BABAR detector

*Tuesday, 7 May 2019 17:15 (15 minutes)*

A program of measuring the light hadrons production in exclusive  $e^+e^- \rightarrow \text{hadrons}$  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  $470 \text{ fb}^{-1}$  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  $e^+e^- \rightarrow \pi^+\pi^-\pi^0\pi^0$ ,  $e^+e^- \rightarrow \pi^+\pi^-\pi^0\eta$ , and  $e^+e^- \rightarrow \pi^+\pi^-\eta$ . These final states are studied in a wide mass range, from threshold production up to  $4 \text{ GeV}/c^2$ .

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**Session Classification:** Parallel session 1

**Track Classification:** Rare Decays of Hadrons and Leptons