

Recent results on two-photon physics at BABAR

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Two-photon processes produced at e^+e^- colliders via the reaction $e^+ e^- \rightarrow e^+ e^- \gamma \gamma \rightarrow e^+ e^- X$, provide important experimental data for the study of hadronic spectra and testing QCD predictions. We report here on recent results in a number of these channels that are obtained at the PEP-II collider with the BABAR detector. The $\gamma \gamma \rightarrow \pi^0 \pi^0$, $\pi^0 \eta$, and $\eta \eta$ cross sections are measured in the two photon invariant mass range from 2 GeV to 5 GeV using both single tag and no tag techniques. We also present measurements of the photon-meson transition form factors using the single tag technique. The $\gamma \gamma \rightarrow \pi^0$ transition form factor for the momentum transfer range $Q^2=4-40 \text{ GeV}^2$ and the $\gamma \gamma^* \rightarrow \eta_c$ transition form factor for the range $Q^2=2-50 \text{ GeV}^2$ will be presented.

Primary authors: Prof. LONG, Owen (University of California, Riverside); Dr DRUZHININ, Vladimir (Budker Institute of Nuclear Physics, Novosibirsk, Russia)

Presenter: Dr DRUZHININ, Vladimir (Budker Institute of Nuclear Physics, Novosibirsk, Russia)

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