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Study of QCD in gamma gamma to pseudoscalar meson pair processes

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We report QCD studies of pseudoscalar meson pair production in two-photon collisions at the Belle experiment. Differential cross sections have been measured for $\pi^+\pi^-$, $\pi^0\pi^0$, K^+K^- , $K_S K_S$, $\eta\pi^0$ and $\eta\eta$ final states. Their W dependence and angular distributions are compared with perturbative and non-perturbative QCD predictions at $(2.4 - 3.1) \text{ GeV} < W < (3.3 - 4.1) \text{ GeV}$, where W is the invariant mass of the two-photon system. Existing predictions fail systematically to describe our measurements.

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