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Meson production in initial-state radiation of e^+e^- events at BABAR

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Collaboration

BaBar

Abstract content

The BaBar Collaboration has an intensive program studying the hadronic cross section at low-energy e^+e^- collisions, accessible at BaBar via initial-state radiation (ISR). These measurements allow significant improvements in the accuracy of the predicted value of the muon anomalous magnetic moment, which is necessary for shedding light on the current ˜3.5 sigma difference between prediction and experiment. A number of processes with two to six hadrons in final states have been published by BaBar. We report the results of recent studies on the reactions $e^+e^- \to \pi^+\pi^-\pi^0\pi^0$, K_SK_L, $K_SK_L\pi^+\pi^-$, $K_SK_S\pi^+\pi^-$, and K^+K^- obtained via ISR. Number of intermediate states have been studied for the multi-hadron states as well as measurements of J/ψ branching fractions to these channels.

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