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Measurement of the hadronic cross sections for e+eto final states with neutral kaons with the BABAR detector

Saturday 6 August 2016 18:00 (2 hours)

Measurements of low-energy e+e- hadronic cross sections are of fundamental importance because of the approximately three sigma discrepancy between the current measured value of the muon anomalous magnetic moment (g-2) and the Standard Model prediction.

By means of the initial-state-radiation technique, we present the first measurements of the e+e--> KS KL pi0, KS KL eta and KS KL pi0 pi0 cross sections, and the study of their intermediate resonance structure, using 469 fb^-1 of data collected with the BaBar detector at SLAC. Initial-state radiation events are also used to study the processes e+e-->KS K+ pi- pi0 and KS K+ pi- eta, and their intermediate states.

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Session Classification: Poster Session

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