Contribution ID: 18

Type: Poster

## Recent results on low-energy e+e- annihilation into hadrons obtained using initial state radiation with the BABAR detector

Monday, 5 October 2015 18:55 (5 minutes)

The BABAR Collaboration has an extensive program of studying hadronic cross sections in e+e- collisions at low-energies, which are accessible at center-of-mass energy of about 10.6 GeV via initial-state radiation. Our measurements allow significant improvements in the precision of the predicted value of the muon anomalous magnetic moment. We report here the most recent results on several processes, including e+e- -> K\_S K- pi+ pi0 and e+e- -> K\_S K- pi+ eta. Each cross section is measured up to 4.5 GeV and the internal structure of the final hadronic states is studied. With the same technique we have also studied the charge asymmetry in the e+e- -> pi+pi- and mu+mu- reactions. The measured asymmetry is compared with QED predictions for muons, and theoretical models for pions. A clear interference pattern is observed for pions in the vicinity of the f\_2(1270) resonance.

Primary author:ANULLI, fabio (INFN Sezione di Roma)Presenter:ANULLI, fabio (INFN Sezione di Roma)Session Classification:Poster session

Track Classification: Status of QCD