Present status of charmonium spectroscopy in proton antiproton annihilations

Marco Pallavicini

Department of Physics and INFN–Genova
E760/E835 Collaboration

May 18, 1998

Abstract

The E760/E835 collaboration is committed to complete the study of charmonium resonances with proton–antiproton annihilations.

All charmonium states are formed in proton–antiproton collisions between the Fermilab Antiproton Accumulator beam and molecular hydrogen coming from an internal jet target. In this contribution we report recent results from 1996/1997 run that has increased the total integrated luminosity by a factor 5 with respect to previous experiments.

Present status of charmonium spectroscopy and experimental program for the near future are also discussed.