Contribution ID: 646 Type: not specified

Heavy quark meson spectroscopy at CDF

Saturday 18 July 2009 11:20 (20 minutes)

With growing datasets collected by the CDF II experiment, studies of the spectroscopy of mesons containing heavy quarks becomes more exciting. The CDF experiment has good capabilities in both charm and bottom sector. This capability allowed also to contribute to the study of the Zoo of states called X,Y,Z. In this area we present a recent update of the mass measurement of X(3872). The result m(X(3872)) = 3871.61 +- 0.16 +- 0.19 MeV/c^2 is currently the most precise measurement in the world. In addition, we report evidence for a new narrow resonance, Y(4140), the first to be seen in the J/psi phi decay mode, using 2.7 fb-1 of exclusive B+->J/psiphiK decays.

Primary author: CDF COLLABORATION, The (multiple institutions)

Presenter: Mr WICK, Felix (University of Karlsruhe)

Session Classification: VI. QCD in Hadronic Physics

Track Classification: QCD in hadronic physics