



ID de la contribución : 876

Tipo : Poster

Measurement of cross section for direct photon pair production in association with dijet events at the Tevatron

We present the first measurement of the cross section for direct photon pair production in association with dijet events in proton-antiproton collisions at $\sqrt{s}=1.96$ TeV. We also determine the fraction of events with hard double parton (DP) scattering in a single proton-antiproton collision. Aside from the stringent test of the perturbative QCD predictions, diphoton + dijet production provides an important test of various models of multiple parton interactions.

Summary

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Clasificación de temáticas : Strong Interactions and Hadron Physics