

Study of the dijet invariant mass distribution in

$W+2\text{jet}$ candidate events in

pp collisions at

$\sqrt{s} = 1.96$ TeV

jeudi 21 juillet 2011 09:45 (15 minutes)

We present a study of the dijet invariant mass spectrum in events with at least two jets produced in association with a W boson, using data collected with the D0 detector which correspond to an integrated luminosity of 4.3 fb^{-1} . We perform a detailed comparison of the observed distribution with the background prediction, taking into account systematic uncertainties, to check the presence of an excess in the 120-160 GeV region recently claimed by the CDF Collaboration.

Auteur principal: Dr VERZOCCHI, Marco (Fermilab - PPD Division)

Orateur: Dr SEKARIC, Jadranka (University of Kansas)

Classification de Session: Higgs and New Physics