Rencontres de Moriond EW 2013



ID de Contribution: 19

Type: YSF (Young Scientists Forum)

Measurement of the production cross sections of Z/γ^* bosons in association with b-jets in pp collisions at $\sqrt{s} = 7$ TeV with the CMS detector

vendredi 8 mars 2013 19:46 (5 minutes)

The mechanism of production of heavy-flavoured mesons, in association with vector bosons like Z+b in the Standard Model, is only partially understood. The deep understanding of these processes is furthermore required by Higgs and BSM analysis with similar final states. Using the total 5.2 fb-1 LHC proton-proton collision data collected in 2011 at a centre of mass energy of 7 TeV by the CMS detector, the final measurement of the Z+b cross sections will be presented in this talk. Z+b inclusive, Z+1b exclusive and Z+2b inclusive cross sections are determined for b hadron jets having pT > 25 GeV and |eta| < 2.1. The results are related to the following CMS document : Measurement of the production cross sections of Z/γ^* bosons in association with b-jets in pp collisions at $\sqrt{s} = 7$ TeV with the CMS detector, CMS PAS SMP-12-003.

Auteur principal:Mlle CEARD, Ludivine (UCLouvain)Orateur:Mlle CEARD, Ludivine (UCLouvain)Classification de Session:Young Scientist Forum

Classification de thématique: Experiment