ID de Contribution: **856** Type: **Parallel session talk**

Measurement of diboson production in lepton plus jets decays at the Tevatron

jeudi 21 juillet 2011 16:45 (15 minutes)

We present the result of measurements of the cross sections for the simultaneous production of two vector bosons (WW, WZ, ZZ) in lepton plus jets decays at a center-of-mass energy of $\sqrt{s} = 1.96$ TeV using data collected with the CDF and D0 detectors at the Fermilab Tevatron. We then present the results of searches for the WZ or ZZ production where one ot the bosons decays leptonically ($W \to \ell\nu$, $Z \to \ell^+\ell^-$ or $Z \to \nu\bar{\nu}$) and the other Z boson decays to $b\bar{b}$. These final states are direct analogs of the final states used in the Standard Model Higgs searches in final states with leptons and b quark pairs and thuis provide a crucial validation benchmark of the Higgs boson signal isolation techniques involved.

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Classification de Session: Higgs and New Physics