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Tevatron Measurement of WZ/ZZ (Z->bb) production cross section in proton-antiproton collisions at 1.96 TeV

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We present a measurement of the cross section for the simultaneous production of two vector bosons (WZ,ZZ), where one of the bosons decays leptonically (W->lv, Z->ll or Z->vv) and the other Z boson decays to bottom quarks. The measurement uses up to 8.5 fb-1 of data collected with the D0 and CDF detectors in proton-antiproton collisions at 1.96 TeV, and combines the three leptonic decay modes mentioned above. This final state is a direct analog to SM Higgs searches in final states of leptons plus bottom quark pairs, and thus provides a crucial validation benchmark of the Higgs boson signal isolation techniques involved.

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