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Measurements of WW , $W\gamma$ and $Z\gamma$ production cross sections at CMS (15' + 5')

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We present production cross-section measurements of diboson final states, WW , $W\gamma$ and $Z\gamma$, based on 36 inverse-picobarns of proton proton collisions data at $\sqrt{s} = 7$ TeV recorded at the LHC by the CMS detector. The electron and muon decay channels of the W and Z are used. For the W mode, we consider ee, e-mu and mu-mu final states. For the $W\gamma$ and $Z\gamma$ modes, we measure the cross sections for the photon transverse energy $E_T(\gamma) > 10$ GeV and spatial separation from charged leptons $\Delta R(l, \gamma) > 0.7$. Our measurements are in agreement with standard model predictions. We also set the limits on anomalous $WW\gamma$, WWZ , $ZZ\gamma$, and $Z\gamma\gamma$ trilinear gauge couplings at $\sqrt{s} = 7$ TeV.

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