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Measurements of WW, Wγ and Zγ production cross sections at CMS (15' + 5')

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We present production cross-section measurements of diboson final states, WW, Wγ and Zγ, based on 36 inverse-picobarns of proton proton collisions data at √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 Wγ and Zγ modes, we measure the cross sections for the photon transverse energy ET(γ)>10 GeV and spatial separation from charged leptons ΔR(l,γ)>0.7. Our measurements are in agreement with standard model predictions. We also set the limits on anomalous WWγ, WWZ, ZZγ, and Zγγ trilinear gauge couplings at √s = 7 TeV.

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