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Cross sections for $W\gamma$ and $Z\gamma$ Production in 7TeV pp collisions

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We present the measurement of $W\gamma$ and $Z\gamma$ production cross sections using data corresponding to the full 2010 and 2011 periods of the LHC run. For charged lepton decay modes of W and Z bosons the total cross sections are measured for photon transverse energy greater than 15 GeV. We also present the first measurement of $Z\gamma$ production cross section using the $n\gamma$ final state for photon transverse energy greater than 145 GeV. The results are also interpreted in terms of limits of anomalous trilinear gauge couplings.

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