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Study of W gamma and Z gamma production at the LHC

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We have used the ATLAS detector to study W and Z bosons produced with high energy photons in pp collisions at $\sqrt{s} = 7$ TeV. We select W gamma and Z gamma events from the interactions $p+p \rightarrow l + \nu + \gamma + X$ and $p+p \rightarrow l + l + \gamma + X$ where the lepton is a muon or electron. The photon is required to be isolated and separated from the lepton(s) by $dR(l-\gamma) > 0.7$. The measurement is based upon data collected by the ATLAS experiment in 2011. The production cross sections and the kinematic distributions of the leptons and photons are compared to Standard Model predictions and to predicted sources of new physics.

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