## Abstract Submitted for the APR11 Meeting of The American Physical Society

Measurement of  $W\gamma$  and  $Z\gamma$  production at the LHC ALFRED GOSHAW, Duke University, ATLAS COLLABORATION — We present measurements of high energy photons produced in association with W and Z bosons in ppcollisions at  $\sqrt{s} = 7$  TeV using the ATLAS detector. The analysis uses W and Z bosons selected with leptonic  $e/\mu$  decays. Subsets of these events are identified by demanding an electromagnetic object passing isolated photon selection criteria. Using 35 pb<sup>-1</sup> of data we isolate signals of  $p + p \rightarrow l + \nu + \gamma + X$  and p + p $\rightarrow l + l + \gamma + X$  production with photon transverse energy  $E_T > 15$  GeV and separation from the lepton  $\Delta R(l-\gamma) > 0.7$ . The production cross sections and the kinematic distributions of the leptons and photons are compared to Standard Model predictions.

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