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Photon and photon+jet production measured with the ATLAS detector

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Isolated prompt photons provide a direct probe of short-distance physics, complementary to that provided by measurements of jets or vector-bosons. The inclusive prompt photon cross section has been measured over a wide range of transverse momenta; the diphoton cross section has also been measured as a function of diphoton mass, total transverse momentum and azimuthal separation; the cross section for photons produced in association with jets is also measured. The results use data to suppress backgrounds, and also to remove the effects of underlying event and multiple proton-proton interactions in a theoretically well-controlled manner. The results are compared to the predictions of next-to-leading-order QCD.

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