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Photon and photon+jet production measurements 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 and are sensitive to the gluon density of the proton. The inclusive prompt photon cross sections have been measured by the ATLAS collaboration at various centre-of-mass energies of pp collisions over a wide range of transverse momenta. These experimental results are reported in different fiducial regions covering a wide acceptance and are compared to next-to-leading order QCD calculations with different models of the parton content of the proton.
The diphoton and photon+jet system cross sections have also been measured as a function of several kinematic variables.

Primary author: Prof. GLASMAN, Claudia (Universidad Autonoma de Madrid)

Presenter: Prof. GLASMAN, Claudia (Universidad Autonoma de Madrid)

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