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## Photon, diphoton 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 data are sensitive to the gluon density of the proton. The inclusive prompt photon cross sections have 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 as a function of various kinematic variables describing the photon+jet system. The results are compared to the predictions of next-to-leading-order QCD.

### Summary

**Primary author(s)** : ATLAS, Collaboration (CERN)

**Presenter(s)** : Dr. ASQUITH, Lily (Argonne)

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