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Type: **Experiment**

Dynamics of isolated-photon and jet production in pp collisions at 7 TeV with the ATLAS detector

The dynamics of isolated-photon plus jet production in pp collisions at a centre-of-mass energy of 7 TeV has been studied with the ATLAS detector at the LHC. Measurements of isolated-photon plus jet differential cross sections are presented as functions of photon transverse energy, jet transverse momentum and jet rapidity. In addition, the differential cross sections as functions of the difference in azimuthal angle between the photon and the jet, the photon-jet invariant mass and the scattering angle in the photon-jet centre-of-mass frame have been measured. Next-to-leading-order QCD calculations are compared to the measurements and provide a good description of the data, except in the case of the azimuthal angle.

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