

Measurements of isolated prompt photons in pp collisions with the ATLAS detector

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Measurements of the cross section for the inclusive production of isolated prompt photons, photons produced in association with jets and diphotons in pp collisions at a centre-of-mass energy $\sqrt{s} = 7\text{TeV}$ are presented. Photon candidates are identified by combining information from the calorimeters and from the inner tracker. Residual background in the selected sample is estimated from data based on the observed distribution of the transverse isolation energy in a narrow cone around the photon candidate. The results are compared to predictions from next-to-leading order perturbative QCD calculations.

Auteur principal: Dr BARONCELLI, Antonio (INFN/Roma TRE)

Orateur: POLCI, Francesco

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