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Measurement of isolated photons in pp collisions at $\sqrt{s}$ = 8 TeV with the ALICE detector at LHC

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The study of prompt direct photons, from Compton scattering and annihilation hard processes in hadronic collisions, can test perturbative quantum chromodynamics theory predictions. In pp collisions, they can be used to constrain parton distribution functions as they come directly from the parton-parton hard scatterings. The measurement of direct photon production is complicated due to the presence of large photon background from hadron decays, especially from neutral mesons.

In this contribution, we will present the measurement of isolated photon production in pp collisions at $\sqrt{s}$ = 8 TeV using the data collected by the ALICE detector. The isolation technique is used to select prompt direct photons and reduce contamination from decay and fragmentation photons. The results have been compared to a theoretical prediction.

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