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Measurements of inclusive and differential cross-sections of tt_bar+γ production in pp collisions at Sqrt(s)=13 TeV with the ATLAS detector

Wednesday 24 April 2024 14:00 (20 minutes)

Based on https://arxiv.org/abs/2403.09452.

The absolute and normalised differential cross-sections are measured for several variables characterising the photon, lepton and jet kinematics as well as the angular separation between those objects. The observables are found to be in good agreement with the Monte Carlo predictions. The photon transverse momentum differential distribution is used to set limits on effective field theory parameters related to the electroweak dipole moments of the top quark. The combined limits using the photon and the Z boson transverse momentum measured in tt_bar production in associations with a Z boson are also set.

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