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PDF constraints from top-quark pair differential measurements

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Constraints on parton distribution functions are presented that are based on differential cross-section measurements of single lepton and dilepton kinematic distributions in dileptonic top quark pair events. The measurements utilize 20.2 fb⁻¹ of $\sqrt{s} = 8$ TeV pp collisions recorded by the ATLAS experiment at the LHC. The sensitivity of the cross-sections to the gluon parton distribution function is explored.

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