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Measurements of differential cross-sections of top-quark-antiquark pair-production in the lepton+jets and all-hadronic channels with the ATLAS detector

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Comprehensive measurements of differential cross-sections of top-quark-antiquark pair-production are presented. The measurements are performed in the lepton+jets and the all-hadronic channels which allow for reconstruction of the top-quark and top-quark-pair kinematic distributions. The two channels are complementary in terms of range and resolution for several variables. Both measurements use data recorded in the years 2015 and 2016 during Run 2 of the LHC. The measurements are compared quantitatively to several setups of next-to-leading order matrix-element generators combined with parton-shower generators. In addition, a total cross-section measurement based on the full Run 2 dataset is presented.

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