

Combination of searches for the production of $t\bar{t}t\bar{t}$ in the single lepton, opposite sign and same signs dileptons channels in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector.

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The combination of three analysis searching for the production of $t\bar{t}t\bar{t}$ with the ATLAS detector is presented. It is based on proton-proton collisions data with center of mass energy $\sqrt{s} = 13$ TeV collected at the Large Hadron Collider (LHC) during the years 2015 and 2016, corresponding to an integrated luminosity of 36.1 fb^{-1} . The considered final states are events with multiple jets, b -jets, and either one lepton, dileptons with opposite electric charge, dileptons with same electric charge or three leptons. Constraints are set on Standard Model production and an effective field theory inducing four fermions contact interaction.

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