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Top Quark Pair Properties with ATLAS

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Abstract:

In 7 TeV proton-proton collisions at the LHC, pairs of top and anti-top quarks are expected to be produced primarily through gluon fusion. The ATLAS experiment has now recorded a large number of top quark pairs allowing this domain to be explored in detail. Top-quark pairs are studied in the context of resonant production which constitutes one of the signatures of physics beyond the Standard Model. We also present measurements of the spin correlation between top and anti-top quarks, the top-quark charge asymmetry which constitute important tests of QCD and are sensitive to new physics.

Author: Dr KAUSHIK, Venkat (University of Arizona (US))

Presenter: Dr KAUSHIK, Venkat (University of Arizona (US))

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