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## Top quark pair property measurements using the ATLAS detector at the LHC

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Precise measurements of the properties of the top quark test the Standard Model (SM) and can be used to constrain new physics models. The top-quark is predicted in the SM to decay almost exclusively into a  $W$  boson and a  $b$ -quark. We present a wide range of searches for non-SM top quark decays using the 13 TeV ATLAS datasets, including  $t \rightarrow q H$  and  $t \rightarrow q Z$ . In addition, measurements of the spin correlation and colour flow in  $t\bar{t}$  production are also presented.

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