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Search for New Physics in Dijet Mass and Angular Distributions in pp Collisions at sqrt(s) = 7 TeV Measured with the ATLAS Detector

We present a search for physics beyond the Standard Model in proton-proton collisions at a centre-of-mass energy of sqrt(s) = 7 TeV, performed with the ATLAS Detector at the Large Hadron Collider (LHC). In 2010, no sign of new physics was observed in dijet mass and angular distributions and the world's best limits were set on a variety of models of new physics, including excited quarks, quark contact interactions, axigluons, and quantum black holes. For example, an exited quark was excluded with mass between 0.60 and 2.64 TeV and quark contact interactions were excluded with a compositeness scale below 9.5 TeV. Pending approval and LHC performance, we anticipate presenting new results from a significantly larger dataset.

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