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Top quark measurements at the Large Hadron Collider

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The Standard Model (SM) of particle physics is our best description of the fundamental forces and particles in the universe, though there are many observed effects that it does not explain. To explain such phenomena, we require new physics. The top quark, as the heaviest known fundamental particle, offers a window into potential new physics. This talk focuses on measurements of rare top quark processes involving other heavy particles using data collected by the ATLAS detector during proton-proton collisions at the Large Hadron Collider. Such measurements are stringent tests of the SM.

Category

Particle / Astroparticle / Cosmology (Experiment)

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