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A Study of the Production of Vector Bosons and Jets at 7 TeV

The production of vector bosons with jets is important for testing QCD and for estimating backgrounds for top quark production and for new physics studies. Deviations of the measurements from the standard model predictions can signal the onset of new physics. We present first results on the measurement of cross sections for the production of vector bosons and jets for proton-proton collisions at 7 TeV based on data taken with the CMS detector. Prospects for more precise measurements are also shown.

Primary author: DAMGOV, Jordan (TTU)

Presenter: DAMGOV, Jordan (TTU)

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