Measurement of di-jet event cross sections in pp collisions at $\sqrt{s} = 13$ TeV with CMS 2016 data

Armando Bermudez, Hannes Jung, L.I. Estevez Banos, Patrick Connor
DESY Hamburg

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Abstract

A measurement of multi-differential cross-sections for QCD di-jet events production in pp collisions at a centre-of-mass energy of 13 TeV will be presented. The analysed data set was recorded with the CMS detector during 2016, corresponding to an integrated luminosity of about 36 fb-1. The multiplicity is measured triple-differentially as a function of the $\Delta\phi_{1,2}$ separation between leading and subleading jets and p_T of the leading jet. The transverse momenta of the leading four jets are also measured.

This talk will give an overview of the analysis starting with the event selection and the applied corrections to data and MC and finally the cross-section unfolding procedure. The data measured will be compared to MC predictions.