



Contribution ID: 1660

Type: **Poster**

Measurements of the differential cross section of W boson produced in association with jets with the CMS detector at the LHC

Monday 8 August 2016 18:30 (2 hours)

The measurement of the differential cross-sections for a $W \rightarrow \mu \nu$ boson produced in association with jets is presented using 8 TeV proton-proton collisions data recorded by the CMS detector at the LHC, corresponds to an integrated luminosity of 19.6 fb⁻¹. The differential cross sections are measured as a function of jet multiplicity, the jet pT and pseudorapidity, total hadronic activity HT for different jet multiplicities and several angular correlation distributions among jets and the muon. The cross section measurements are then compared with the predictions from LO and NLO generators, and from NLO and NNLO theoretical predictions.

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Session Classification: Poster Session

Track Classification: Strong Interactions and Hadron Physics