ICHEP 2016 Chicago



38th INTERNATIONAL CONFERENCE ON HIGH ENERGY PHYSICS

AUGUST 3 - 10, 2016 CHICAGO

Contribution ID: 1299

Type: Oral Presentation

WW + jet at 14 and 100 TeV (15' + 5')

Friday, 5 August 2016 17:55 (20 minutes)

In the second run of the LHC, which started in April 2015, an accurate understanding of Standard Model processes is more crucial than ever. Processes including electroweak gauge

bosons serve as standard candles for SM measurements, and equally constitute important background for BSM searches. We here present the NLO QCD virtual contributions to W+W- + jet

in an analytic format obtained through unitarity methods and show results for the full process using an implementation into the Monte Carlo event generator MCFM.

Phenomenologically, we investigate total as well as differential cross sections for the LHC with 14 TeV center-of-mass energy, as well as a future 100 TeV proton-proton machine.

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Session Classification: Top Quark and Electroweak Physics

Track Classification: Top Quark and Electroweak Physics