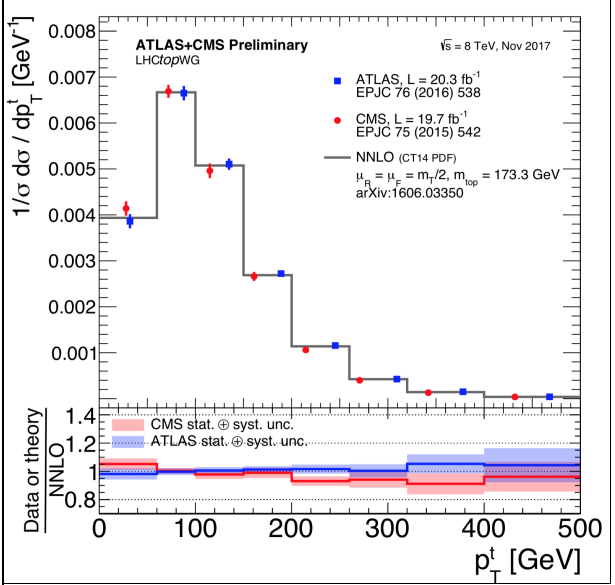


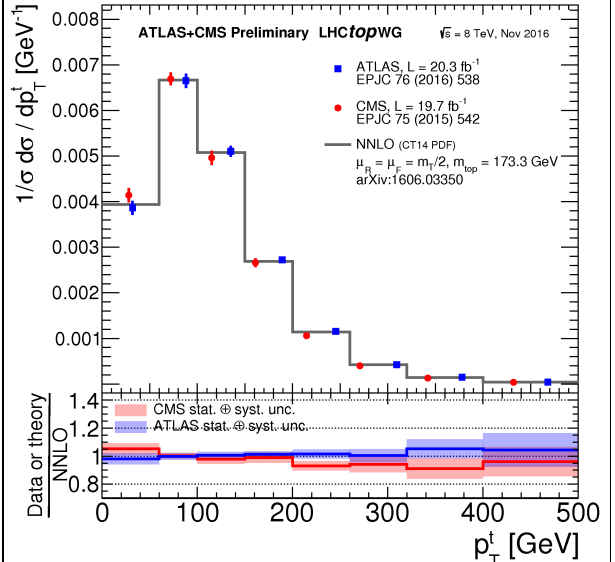
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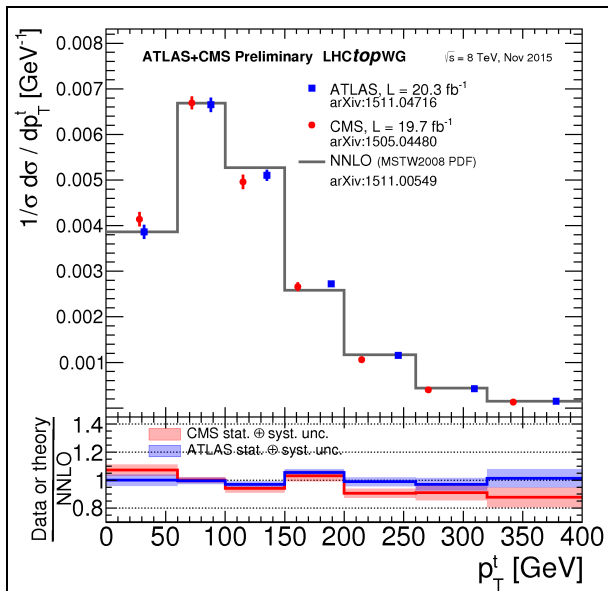
# History of LHCTopWG Summary Plots:

# Top Pair Differential Distribution of Top $p_T$ at 8 TeV Summary

Figure	Description
<p data-bbox="236 365 767 394">Pair production differential cross sections</p> 	<p data-bbox="817 405 1498 920">Full phase-space normalised differential <math>t\bar{t}</math> cross-section as a function of the transverse momentum of the top quark. The CMS and ATLAS results are compared to the NNLO calculation. The values for the top-quark mass (<math>m_{top}</math>), the renormalisation (<math>\mu_R</math>) and factorisation (<math>\mu_F</math>) scales, and the choice of the PDF set used in the calculation are provided. The variable <math>m_T</math> is defined as the square root of the sum of the squares of top-quark mass and the transverse momentum of the top quark. Both the CMS and ATLAS measurements are performed assuming a top-quark mass value of 172.5 GeV. The shaded bands show the total uncertainty on the data measurements in each bin. The lower panel shows the ratio of the data measurements to the NNLO calculation.</p> <p data-bbox="817 927 874 987">PNG PDF</p> <p data-bbox="817 1032 1007 1061">November 2017</p>

	<p data-bbox="817 1111 1498 1626">Full phase-space normalised differential <math>t\bar{t}</math> cross-section as a function of the transverse momentum of the top quark. The CMS and ATLAS results are compared to the NNLO calculation. The values for the top-quark mass (<math>m_{top}</math>), the renormalisation (<math>\mu_R</math>) and factorisation (<math>\mu_F</math>) scales, and the choice of the PDF set used in the calculation are provided. The variable <math>m_T</math> is defined as the square root of the sum of the squares of top-quark mass and the transverse momentum of the top quark. Both the CMS and ATLAS measurements are performed assuming a top-quark mass value of 172.5 GeV. The shaded bands show the total uncertainty on the data measurements in each bin. The lower panel shows the ratio of the data measurements to the NNLO calculation.</p> <p data-bbox="817 1632 874 1693">PNG PDF</p> <p data-bbox="817 1738 1007 1767">November 2016</p>
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Full phase-space normalised differential  $t\bar{t}$  cross-section as a function of the transverse momentum of the top quark. The CMS and ATLAS results are compared to the NNLO calculation. The shaded bands show the total uncertainty on the data measurements in each bin. The lower panel shows the ratio of the data measurements to the NNLO calculation. The data are only shown up to 400 GeV, since the NNLO prediction is not available above this value.

[PNG](#)

[PDF](#)

November 2015

-- MartijnMulders - 2015-12-04

This topic: [LHCPhysics > TtbarDifferential8TeVpTtopNNLOHistory](#)

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