SNSN-323-63
November 6, 2016

Measurement of the differential cross section for t-channel single-top-quark production at 13 TeV

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PRESENTED AT

9^{th} International Workshop on Top Quark Physics
Olomouc, Czech Republic, September 19–23, 2016

[1]Work supported by Fonds de la Recherche Scientifique (FNRS).

1 Introduction

2 Event selection

3 Signal extraction

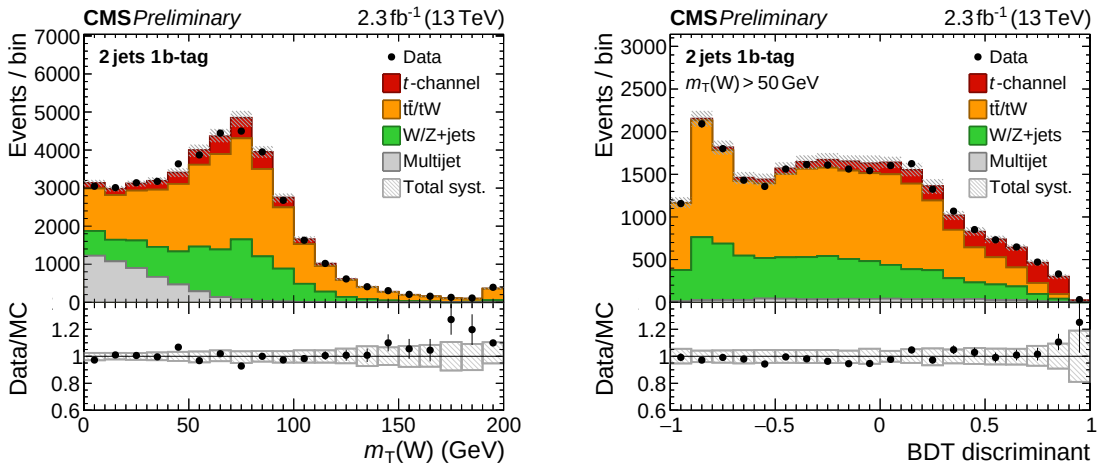

Figure 1: Distributions of (left) the transverse W boson mass and (right) the BDT discriminant after requiring $m_{\mathrm{T}}(\mathrm{W}) > 50$ GeV.

3.1 Boosted decision tree

3.2 Maximum likelihood fitting

3.3 Unfolding

4 Results

5 Conclusion

ACKNOWLEDGEMENTS

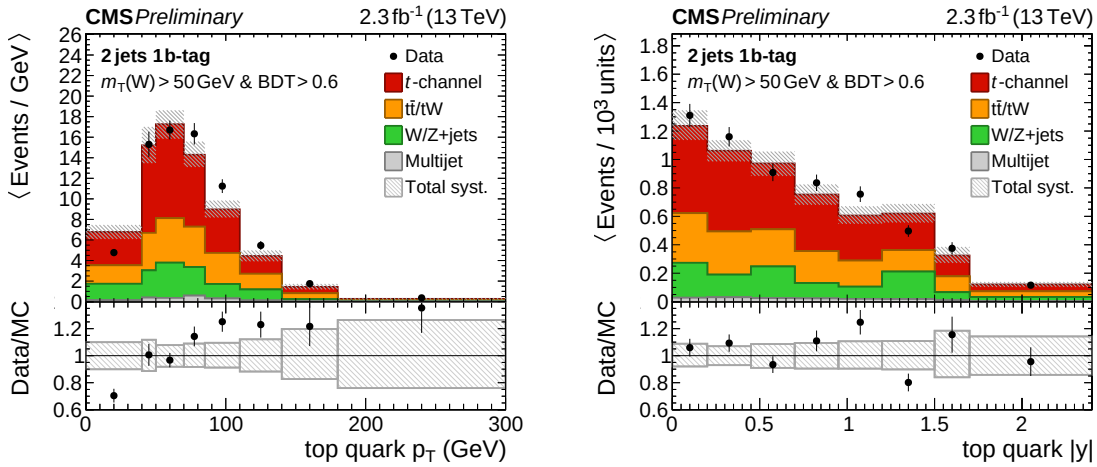

Figure 2: .

References

[1] F. A. Mesmer, Proc. Wien. Acad. Sci. **13**, 1564, 1593 (1762).

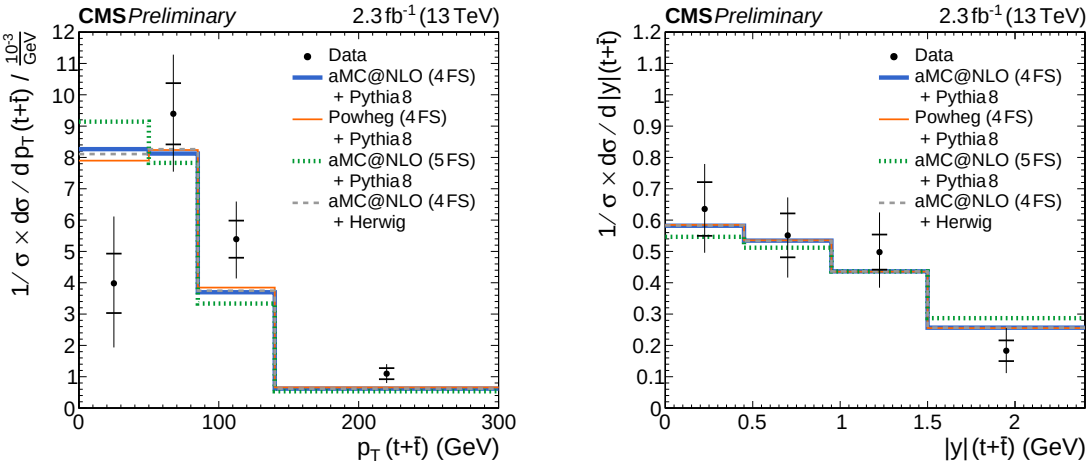

Figure 3: Normalized differential t-channel single-top-quark cross section as a function of the parton-level top quark (left) transverse momentum and (right) rapidity.