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hints for contributions from physics beyond the standard model have been found.

The measured value for the inclusive asymmetry as well as the mea-

The measured distributions of the sensitive observable were then corrected for acceptance and

construction was performed to determine the four-momenta of the top quarks and antiquarks.

An inclusive and three differential measurements of the charge asymmetry in t

Conclusion

certainties.

The error bars on the differential asymmetry values indicate the statistical and systematic un-

of

Figure 3: Unfolded inclusive

| 1 |

CMS Preliminary
4.7 fb\(^{-1}\) at \(\sqrt{s} = 7\) TeV

l+jets

p\(_{T\,tt}\) [GeV/c]

0 50 100 150

0 0.05 0.1

CMS Preliminary
4.7 fb\(^{-1}\) at \(\sqrt{s} = 7\) TeV

l+jets

m\(_{tt}\) [GeV/c\(^2\)]

300 400 500 600 700 800

0 0.05 0.1

CMS Preliminary
4.7 fb\(^{-1}\) at \(\sqrt{s} = 7\) TeV

l+jets

\(|y|\)

0 0.5 1 1.5

0 0.05 0.1

References

CDF Collaboration, "Evidence for a mass dependent forward-backward asymmetry in

\(\bar{t}t\) pair is in agreement with the predictions and no

POWHEG Simulation

Data

EFT

NLO prediction

NLO prediction

arXiv:1101.0034