

Abstract Submitted
for the SES16 Meeting of
The American Physical Society

Soft-gluon Corrections for tZ Production Via Anomalous Couplings¹ JORDON TYLER CAMPBELL, NIKOLAOS KIDONAKIS, Kennesaw State Univ — We present calculations for tZ production via an anomalous tqZ coupling. We provide results for the total hadronic cross section for the process $pp \rightarrow tZ$ at LHC energies. Included in our calculations are next-to-leading order (NLO) soft gluon corrections, as well as next-to-next-to-leading order (NNLO) soft gluon corrections. We show the size of these NLO and NNLO corrections and their effect on the scale dependence of the cross sections relative to the leading-order results.

¹This material is based upon work supported by the National Science Foundation under Grant No. PHY 1519606.

Jordon Tyler Campbell
Kennesaw State Univ

Date submitted: 07 Oct 2016

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