Abstract Submitted
for the APR14 Meeting of
The American Physical Society

FCNC Top Quark Production Via Anomalous Gluon Coupling[1]
ELWIN MARTIN, Georgia Institute of Technology, NIKOLAOS KIDONAKIS, Kennesaw State University — We calculate flavor-changing neutral current (FCNC) processes with top-quark production via anomalous gluon couplings at various LHC energies. We present the FCNC process $pp \to tg$. We go beyond leading order and include soft-gluon corrections through next-to-next-to-leading order. Additionally, we report the impact of QCD scale variation on the cross section.

[1]This material is based upon work supported by the National Science Foundation under Grant No. PHY 1212472.

Elwin Martin
Georgia Institute of Technology

Date submitted: 10 Jan 2014 Electronic form version 1.4