Abstract Submitted
for the APR15 Meeting of
The American Physical Society

Measurement of the triple differential cross section for direct photon plus jet production with the CMS detector AJEETA KHATIWADA, Florida State University, CMS COLLABORATION — We measure the triple differential cross section for direct photon plus jet as a function of photon transverse momentum, photon pseudorapidity, and jet pseudorapidity. The production of direct photons in association with jets can be used to understand gluon distribution functions as well as to test perturbative Quantum Chromodynamics at wide kinematic range of hard-scattering scales (Q^2) and parton momentum fractions (x). The measurement is made using single-photon-triggered dataset collected by the Compact Muon Solenoid detector in proton-proton collisions.

Ajeeta Khatiwada
Florida State University

Date submitted: 07 Jan 2015 Electronic form version 1.4