

Abstract Submitted  
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**Measurement of the Triple Differential Cross Section of Photon plus Jet in pp Collisions at 7 TeV** CHUANZHE LIN<sup>1</sup>, University of Virginia, ON BEHALF OF THE CMS COLLABORATION — A measurement of the triple differential cross section for the process  $pp \rightarrow \gamma + jet + X$  in proton-proton collisions at a centre-of-mass energy of 7 TeV is presented. The data sample corresponds to an integrated luminosity of 2.1 inverse femtobarns recorded by the CMS detector at the LHC. The measurement covers the photons with pseudorapidity range  $|\eta| < 2.5$  and the transverse energy range  $40 < ET < 300$  GeV and a leading jet with pseudorapidity range  $|\eta| < 2.5$  and the transverse energy  $ET > 20$  GeV. The measured cross section is presented as a function of ET of the photon for four pseudorapidity regions of the photon two pseudorapidity regions of the jet. The result is compared with the next-to-leading-order perturbative QCD calculations.

<sup>1</sup>The result is based on the CMS collaboration.

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