

Abstract Submitted  
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**Measurement of Angular Distributions for Z/gamma\* plus Jet Events in pp Collisions at  $\sqrt{s} = 7$  TeV** KITTIKUL KOVITANGGOON, graduate student, SUNG-WON LEE, NURAL AKCHURIN, Professor, CMS COLLABORATION — We present the angular distributions in events containing a Z boson and a jet. The data samples correspond to  $\sim 5/\text{fb}$  of proton-proton collisions at  $\sqrt{s} = 7$  TeV, collected by the CMS detector in the year of 2011. The jet transverse momentum must be greater than 30 GeV/c and the absolute jet pseudorapidity must be less than 2.4. We compare our measurements with a next-to-leading-order perturbative QCD calculation and two generator programs that combine tree-level matrix element calculations with parton showers.

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