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Measurement of Angular Distributions of Z0/γ^*+Jet with CMS detector at $\sqrt{s}$ = 7TeV

The area-normalized angular distributions in events containing a Z0 boson and a jet, using the electron decay mode will be presented. The data samples correspond to ˜5fb-1 of proton-proton collisions at √s=7 TeV, collected by the CMS detector. Events in which there is a Z boson and at least one jet, with a jet transverse momentum threshold of 30 GeV/c and absolute jet rapidity less than 2.4, are selected for this analysis. We compare our measurements with a next-to-leading-order perturbative QCD calculation and two generators that combine tree-level matrix element calculations with parton showers.

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