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Measurement of the Transverse Momentum Distribution of Z/γ^* Bosons in 7TeV Proton-Proton Collisions with the ATLAS Detector

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I present a measurement of the Z/γ transverse momentum (p_{TZ}) distribution in proton-proton collisions at $\sqrt{s}=7\text{TeV}$ using $Z/\gamma \rightarrow e+e-$ and $Z/\gamma^* \rightarrow \mu+\mu-$ decays in data samples corresponding to integrated luminosities of 35 pb^{-1} and 40 pb^{-1} respectively, taken in 2010 with the ATLAS detector. The normalized p_{TZ} distributions are measured separately for electron and muon decay channels as well as for their combination up to p_{TZ} of 350 GeV. The combined measurement is compared to predictions of perturbative QCD and various event generators.

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