



Contribution ID: 79

Type: **Parallel contribution**

Measurement of the differential production cross section of Z bosons at 7 TeV

Tuesday 9 August 2011 14:40 (20 minutes)

In 2010 the CMS experiment collected about 35 pb⁻¹ of data during the first physics run of the LHC accelerator. We present the first measurements of the differential cross section as a function of boson rapidity and transverse momentum for Z bosons produced at 7 TeV and decaying to pairs of electrons and muons. The data are unfolded and corrected for efficiencies, allowing a direct comparison to recent theoretical calculations.

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Session Classification: Electroweak Physics

Track Classification: Electroweak Physics