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Measurement of the Drell-Yan Cross Section with the CMS detector at the LHC

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We present a measurement of the Drell Yan differential cross-section $d\sigma/dm$, and the double differential cross section $d^2\sigma/dm dY$ in pp collisions at 7 TeV using a dataset corresponding to an integrated luminosity of 5 fb^{-1} recorded at the LHC with the CMS detector. The complete cross-section measurement is reported for both the di-muon and di-electron channels. The cross-section is measured in the di-lepton invariant mass range 15 - 1500 GeV/c² and the results are compared to theoretical predictions. The cross-section values are quoted with and without acceptance and final state radiation corrections.

E-mail Address

neumeist@purdue.edu

Collaboration Name **Please enter the name of the collaboration or group using the acronym, as in: ABC Collaboration**

CMS Collaboration

Author: NEUMEISTER, Norbert (Purdue University)

Presenter: NEUMEISTER, Norbert (Purdue University)

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