

Abstract Submitted
for the APR10 Meeting of
The American Physical Society

Drell-Yan cross section measurement ALEXEY SVYATKOVSKIY, HWIDONG YOO, NORBERT NEUMEISTER, Purdue University — We present preliminary results of the measurement of the Drell-Yan muon pair production cross section in pp collisions with the first data collected by the CMS detector at the LHC. Dedicated methods to determine trigger and reconstruction efficiencies, using a data-driven approach, will be presented. Methods to correct for the limited detector resolution will be discussed. The Drell-Yan muon pair production cross section is reported relative to the $Z \rightarrow \mu\mu$ peak cross section to avoid large systematic uncertainties, and was also compared with NNLO theoretical predictions.

Alexey Svyatkovskiy
Purdue University

Date submitted: 27 Oct 2009

Electronic form version 1.4