

Abstract Submitted  
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**Drell-Yan cross section measurement in the muon channel at the LHC** ALEXEY SVYATKOVSKIY, Purdue University, CMS COLLABORATION — The first measurement of the Drell-Yan differential cross-section in the muon channel at  $\sqrt{s} = 7$  TeV is presented. A data set of  $36 \text{ pb}^{-1}$  of  $pp$  collisions collected by the CMS detector at the LHC during the year 2010 was used for this measurement. Dedicated data-driven methods to estimate the trigger, reconstruction and identification efficiencies and the QCD background were employed. The differential Drell-Yan muon pair production cross-section was measured in the mass range 15–600 GeV and a comparison with theoretical predictions is presented.

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