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Measurement of the Low Mass Drell-Yan Process at ATLAS

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The low mass Drell-Yan differential cross-section has been measured as a function of the invariant mass of the lepton pair using the ATLAS Experiment at CERN. The measurement has been made using both the electron and muon channels using data recorded in 2011 in an invariant mass range of $26 < M < 66$ GeV. The muon channel is also used with 2010 data to allow the invariant mass range to be extended down to 12 GeV. The 2011 electron and muon analyses have been combined and together with the 2010 analysis have been included in a QCD Fit which demonstrates the need for NNLO QCD fits in order to describe the data well. Comparison to theory curves also demonstrate the need to move beyond NLO to describe the data.

Primary author: GODDARD, Jack Robert (University of London (GB))

Presenter: GODDARD, Jack Robert (University of London (GB))

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