Contribution ID: **22** Type: **not specified**

Measurement of the Drell-Yan transverse momentum dependence over a wide mass range with CMS

Monday 15 November 2021 18:00 (20 minutes)

The double differential cross sections of the Drell-Yan lepton pair (electron or muon) production, as a function of its invariant mass m_ll, transverse momentum pT, and $\phi*$ are measured. Drell-Yan masses between 50 GeV and 1 TeV are investigated. Additionally, a measurement is performed requiring at least one jet in the final state. The collected data correspond to an integrated luminosity of 36.3 fb-1 of proton-proton collisions recorded with the CMS detector at the LHC at the center-of-mass energy of 13 TeV in 2016. Measurements are compared to state-of-the-art predictions based on perturbative quantum chromodynamics including soft gluon resummation. Theses results correspond to the CMS preliminary results SMP-20-003.

Primary author: LEE, Kyeongpil (ULB)

Presenter: LEE, Kyeongpil (ULB)

Session Classification: pp processes