



Contribution ID: 160

Type: **Experiment**

## **ATLAS measurements of Drell-Yan lepton-pair production as probes of the Standard Model**

Precision measurements of Drell-Yan lepton-pair production in pp collisions with the ATLAS detector at the LHC will be presented. Measurements of production cross sections and associated angular correlations can provide unique insight into perturbative QCD in the absence of colour flow between initial and final states, the V-A nature of the interactions, as well as enhance the knowledge of parton distribution functions in the proton. Drell-Yan production is also an important source of background for other Standard-Model processes such as Higgs boson production as well as for new phenomena, particularly at high dilepton invariant mass, and so must be evaluated precisely at the LHC.

**Author:** VINCTER, Manuella (Carleton University (CA))

**Presenter:** VINCTER, Manuella (Carleton University (CA))

**Track Classification:** Poster