



Contribution ID: 443

Type: **Poster submission**

Luminosity determination in pp collisions at $\sqrt{s}=13$ TeV using the ATLAS detector at the LHC

Thursday, August 8, 2019 10:40 AM (20 minutes)

Summary

The preliminary calibration of the integrated luminosity for the Run-2 ATLAS data sample of pp collisions at $\sqrt{s}=13$ TeV is described. The absolute luminosity scale is determined using van der Meer scans during dedicated running periods in each year, and extrapolated to the physics data-taking regime using complementary measurements from several ATLAS subdetectors. The total uncertainties on the integrated luminosities are 2.0-2.4% for each individual year, and 1.7% on the full Run-2 data sample.

Presenter: CARTER, Joseph (University of Toronto (CA))

Session Classification: Poster Session (Thu/Fri)

Track Classification: Accelerators, Detectors and Computing for HEP