



Contribution ID: 11

Type: **not specified**

Measurement of Underlying Event in Z-boson events at ATLAS

A measurement of charged-particle distributions sensitive to the properties of the underlying event is presented for an inclusive sample of events containing a Z-boson, decaying to a muon pair. The measurement is done using proton-proton collision data collected by the ATLAS experiment at $\sqrt{s}=13$ TeV. Unfolded differential cross sections are presented for charged particle multiplicity and charged particle transverse momentum in regions of azimuth measured with respect to the Z-boson direction. The data are compared to a wide variety of predictions from Monte Carlo event generators. ANA-STDM-2017-28

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Session Classification: Monte Carlo, MB & UE

Track Classification: Monte Carlo, MB and UE