

Measurement of the UE activity in pp collisions with the CMS and ATLAS detectors

Monday 2 December 2013 11:45 (24 minutes)

A measurement of the underlying event activity is performed on proton-proton collisions, for different centre-of-mass energies, using the CMS detector. The charged particles in the azimuthal region transverse to the leading track with transverse momentum larger than 0.5 GeV/c and at central pseudorapidities are studied. The measurements are compared with various theoretical predictions. A significant increase in the average multiplicity and the scalar transverse momentum sum in the transverse region is observed up to transverse momenta of few GeV/c followed by a slower rate of increase. Both quantities are observed to increase at higher centre-of-mass energies.

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Session Classification: MPI & Monte Carlo

Track Classification: MPI & Monte Carlo