MPI @ LHC 2013, Workshop on Multi-Parton Interactions at the LHC

Contribution ID: 14

Constraining MPI models using sigma_effective and recent Tevatron and LHC Underlying Event data

Monday 2 December 2013 10:30 (24 minutes)

We review the modelling of multiple interactions in the event generator Herwig++ and study implications of recent tuning efforts to Tevatron and LHC data. It is often said that measurements of the effective cross section for double-parton scattering, sigma_effective, are in contradiction with models of the final state of multi-parton interactions, but we show that the Herwig++ model is consistent with both and gives stable predictions for underlying event observables at 14 TeV.

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Session Classification: MPI & Monte Carlo

Track Classification: MPI & Monte Carlo