



Contribution ID: 248

Type: **Oral presentation**

Monte Carlo event generator predictions for forward physics in $\sqrt{s} = 7$ TeV proton-proton collisions.

Thursday, 5 July 2018 11:40 (20 minutes)

In this work we present a comparative study of PYTHIA, EPOS, QGSJET and SIBYLL generators for proton-proton collisions at $\sqrt{s} = 7$ TeV in the forward region. The generated charged energy flow, charged-particle distributions, charged-hadron production ratios and V^0 ratios are compared to the forward physics measurements from LHCb and TOTEM. Most of the observed differences seem to be explained by the extrapolation from the central rapidity region.

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Session Classification: Parallel Session