



Contribution ID : 223

Type : **Oral presentation**

Minimum Bias, MPI and DPS, and Diffractive and Exclusive measurements at CMS and TOTEM

Saturday, 5 July 2014 12:45 (15)

We present recent results on Minimum Bias, MPI and DPS, and Diffractive and Exclusive studies using data collected during Run 1 of the LHC. The measurements include data collected in p-p collisions at $\sqrt{s} = 2.76, 7, \text{ and } 8 \text{ TeV}$ by the CMS and TOTEM collaborations. Double parton scattering is investigated in several final states including vector bosons and jets, and the effective cross section results are compared to other experiments and to MPI models tuned to recent underlying event measurements at CMS. Inclusive diffractive cross sections are discussed and compared to models, while searches and measurements of central exclusive processes are presented. The results from the first combined measurement by the CMS+TOTEM collaborations of the pseudorapidity distribution of charged particles at 8 TeV are also discussed, and are compared to models and to lower energy measurements.

Summary

Primary author(s) : MEYER, Arnd (RWTH Aachen University)

Presenter(s) : Dr. DUTTA, Dipanwita (Scientist and Associate Professor, Bhabha Atomic Research Centre, Mumbai)

Session Classification : Strong Interactions and Hadron Physics

Track Classification : Strong Interactions and Hadron Physics