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Forward energy density per pseudorapidity and limiting fragmentation studied with CMS at 13TeV

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The forward (HF) and very-forward (CASTOR) calorimeters of CMS are used to measure the density of energy per unit of pseudorapidity up to η of 6.6 at 13TeV. The measurements are compared to model predictions. Furthermore, the corresponding data of transverse energy are compared to CMS measurements at lower center-of-mass energies, where all data are shifted by the beam rapidity. The result is a demonstration of limiting fragmentation in pp collisions over a wide range of energies.

Primary author: Prof. CMS, Collaboration (CINCO)

Presenter: KATKOV, Igor (DESY)

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