

Results of the LHCf experiment and the forward measurements at LHC

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The Large Hadron Collider forward (LHCf) experiment measures forward particles at pseudo rapidity  $>8.4$  in the LHC p-p and p-Pb collisions. In this presentation brief introduction to the LHCf experiment and results so far obtained from the LHC Run1 and 13TeV p-p collision data are presented. Cross sections of forward  $\pi^0$ , photon and neutron production are compared with the prediction by hadronic interaction models used in the modeling of air shower development. Ideas of further analyses and measurements to better constraint model improvements are also presented. Some recent measurements from other LHC experiments at lower rapidity are also discussed.