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Latest LHCf physics results

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The LHCf experiment is composed by two separate detectors, located at +/- 140 m from the ATLAS interaction region of the LHC accelerator.

The main goal of the experiment is the measurement of the neutral particles production in the very high pseudo-rapidity region ($\eta > 8.4$) both in proton-proton and proton-ion collisions. These measurements are extremely useful to calibrate the hadronic interaction models currently used for the study of the development of very high energy cosmic ray's induced showers in the atmosphere.

This talk will describe the latest LHCf physics results both for p-p and p-Pb collisions. In particular, the neutron inclusive spectra in p-p collisions and the neutral pion transverse momentum spectra in p-Pb collisions for different pseudo rapidity regions will be presented.

Summary

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