



Contribution ID: 23

Type: **talk**

## Recent results from LHCf

*Tuesday, February 14, 2012 3:20 PM (20 minutes)*

The Large Hadron Collider forward experiment measured very forward neutral particle spectra in LHC proton-proton collisions in early 2010.

In this talk we will discuss the energy and transverse momentum spectra of neutral pion at the 7TeV proton-proton collision, and also present the inclusive photon energy spectra taken at the 900GeV collisions.

The spectra in both collision energy are also compared with the predictions of several hadronic interaction models that are often used for high energy particle physics and for modeling ultra high energy cosmic ray showers.

Finally we will argue the capability of LHCf to measure a proton-lead collision events that is under discussion for the 2012.

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**Session Classification:** Theory and measurement of UHECR flux and composition