

XVI International Symposium on Very High Energy Cosmic Ray Interactions  
(ISVHECRI 2010)



Contribution ID: 21

Type: **Invited**

## LHCf measurements of very forward particles at LHC

*Monday, 28 June 2010 16:30 (30 minutes)*

LHCf (Large Hadron Collider forward) is a dedicated experiment to measure the neutral particles emitted around zero degree of LHC interactions. Energy and Pt spectra of photons, pi-zero and neutral hadrons at such forward region are crucial to qualify the existing interaction models and to improve them for cosmic-ray physics. From the end of 2009, LHCf has successfully taken data at LHC collisions at  $\sqrt{s}=0.9$  and 7TeV. In this presentation, the first results of LHCf mainly obtained since April 2010 will be presented together with the prediction of various interaction models.

**Primary author:** Dr SAKO, Takashi (Solar-Terrestrial Environment laboratory, Nagoya University)

**Presenter:** Dr SAKO, Takashi (Solar-Terrestrial Environment laboratory, Nagoya University)

**Session Classification:** Recent relevant accelerator data and results

**Track Classification:** Accelerator data