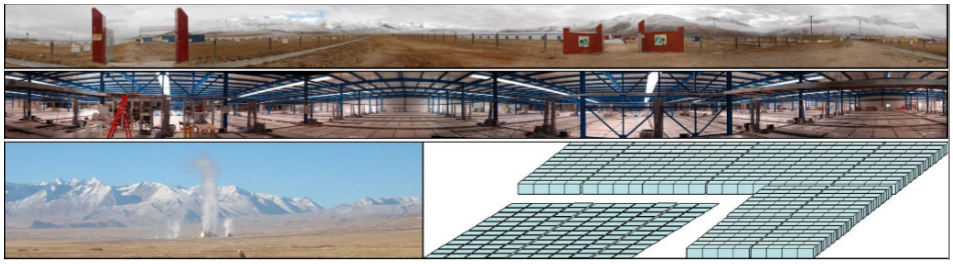

Contribution ID: **25** Type: **not specified**

Forward particle production measured by LHCf; testing hadronic interaction models for Cosmic Ray physics

Friday, 1 February 2013 14:00 (30 minutes)

Uncertainty in the hadronic interaction models is one of the most important sources
of the difficulty to interpret cosmic-ray air shower data. Large Hadron Collider at CERN can provide the best opportunity to test and improve the models at the maximum laboratory energy of 10^17eV. In this talk, some key observations from the LHC experiments are reviewed. Among them detail of a dedicated experiment motivated for the cosmic-ray physics, LHC forward (LHCf), will be presented. The results from the 900GeV and 7TeV proton-proton collisions are presented together with a short introduction of the experiment and on going and future plans.

Presenter: SAKO, Takashi

Session Classification: Interaction models