Contribution ID: 424

## Measurement of charged particle spectra in pp collisions at CMS

Thursday 16 July 2009 17:50 (20 minutes)

We present the plans of the CMS collaboration to measure cross sections and differential yields of charged particles (unidentified or identified pions, kaons and protons) produced in inelastic proton-proton collisions at center-of-mass energy of 14 TeV. The measurements of these basic observables could also serve as an important tool for calibrating and understanding the CMS detector at start-up. The tracking of very low transverse momentum charged particles will be possible down to about 100 MeV/c, with good efficiency and negligible fake rate. Charged hadrons can be identified down to 0.8 and 1.5 GeV/c total momentum for kaons and protons, respectively. Comparisons of the results to various theoretical models are also discussed.

Primary author: WYSLOUCH, Boleslaw (MIT)Presenter: Mr KRAJCZAR, Krisztian (Eotvos University)Session Classification: VI. QCD in Hadronic Physics

Track Classification: QCD in hadronic physics