

Transverse momentum and pseudorapidity dependence of charged particle production and nuclear modification factor in pPb collisions at $\sqrt{s_{NN}}=5.02$ TeV with CMS

Monday, 4 November 2013 16:20 (20 minutes)

The charged particle transverse momentum (p_T) spectra at midrapidity and forward pseudorapidity ranges up to $p_T=100$ GeV/c are presented for pPb collisions at $\sqrt{s_{NN}}=5.02$ TeV. The nuclear modification factor (R_{pPb}) is measured at midrapidity by dividing the measured pPb spectrum by a pp reference spectrum constructed using interpolation methods. In addition, the asymmetries in the charge particle yields between equivalent positive and negative pseudorapidity ranges in both the laboratory and center-of-mass frames are presented as a function of p_T .

Primary authors: KRAJCZAR, Krisztian (CERN); Dr PETRUSHANKO, Sergey (Skobeltsyn Institute of Nuclear Physics, Lomonosov Moscow State University)

Presenter: KRAJCZAR, Krisztian (CERN)

Session Classification: Initial State and Proton-Nucleus Collision Phenomena

Track Classification: Initial State and Proton-Nucleus Collision Phenomena