



Contribution ID: 5

Type: **Regular Talk** (15'+5')

Measurement of prompt production cross section ratio of χ_c states in pPb collisions at $\sqrt{s} = 8.16$ TeV

Monday 29 November 2021 17:25 (20 minutes)

Preliminary results about the prompt production of some heavy quarkonium states are presented, which are based on an event sample of pPb collisions at a center-of-mass energy of 8.16 TeV, collected by CMS detector during 2016 and corresponding to an integrated luminosity of 180 nb^{-1} . $\chi_{c1} \rightarrow J/\psi \gamma$ and $\chi_{c1} \rightarrow J/\psi \gamma$ decays are used for these studies. The ratio of the prompt production cross sections for the χ_{c1} and χ_{c2} states ($\sigma(\chi_{c2})/\sigma(\chi_{c1})$) has been measured in the bins of the J/ψ transverse momentum and track multiplicity.

Authors: MUNOZ ACEVEDO, Andres (Universidad de Antioquia (CO)); Dr MEJIA GUISAO, Jhovanny Andrés (Universidad de Antioquia)

Presenter: MUNOZ ACEVEDO, Andres (Universidad de Antioquia (CO))

Session Classification: Heavy Flavour

Track Classification: Heavy Flavour