5th ComHEP: Colombian Meeting on High Energy Physics



Contribution ID: 36

Type: Regular Talk (15'+5')

Production and properties of the Bc(2S)and B*c(2S)states

Friday 4 December 2020 10:15 (20 minutes)

We reported the production and properties studies of the Bc(2S)and B*c(2S)states,based on an event sample of pp collisions at a center-of-mass energy of 13 TeV, col-lected by CMS detecter and corresponding to an integrated luminosity of 143 fb–1. The excited states are reconstructed in the Bc π + π -decay. The production rate of Bc(2S)and B*c(2S)respect to the base state Bcas estimated within the acceptance of the detector. The relative rate of the two mesons respect to each other is also estimated as well as the shape of the invariant mass of the pion-pion system.

Primary author: RODRIGUEZ GIRALDO, Manuel Alejandro (Universidad de Antioquia (CO))

Co-author: MEJIA GUISAO, Jhovanny Andres (Universidad de Antioquia (CO))

Presenter: RODRIGUEZ GIRALDO, Manuel Alejandro (Universidad de Antioquia (CO))

Session Classification: Heavy flavour

Track Classification: Heavy flavour