

Production studies on heavy quarkonium in pp collisions at 13 TeV

Friday, 10 July 2020 10:25 (0:17)

Content

With the increased center-of-mass energy and luminosity at the LHC, the studies of the heavy quarkonium systems like $B_c(1S)$ has been renewed. CMS has recently reported the observation of two very well separated peaks, interpreted as the predicted $B_c(2S)$ and $B_c(2S)^*$ states, when studying the mass distribution of the $B_c\pi$ system. With the full Run-II data, corresponding to an integrated luminosity of 143 fb^{-1} of pp interactions, In this talk we report the studies performed on those selected candidates to extract the production ratios and other characteristics.

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Session Classification : Morning session 3

Track Classification : Contributed talks