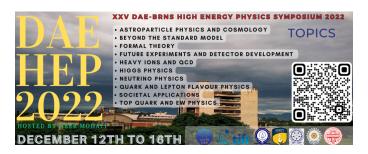
XXV DAE-BRNS High Energy Physics Symposium 2022



Contribution ID: 152 Type: Poster

Observation of the decays B->Psi(2S) Ks pi+pi- and Bs->Psi(2S)Ks at 13 TeV pp collision in the CMS experiment

Thursday 15 December 2022 14:00 (1 hour)

The decays B->Psi(2S)Ks pi+ pi- and Bs->Psi(2S)Ks are observed for the first time based on data samples (2017 and 2018) of pp collision collected with the CMS detector, corresponding to an integrated luminosity 103 inverse femtobarn taken at the centre of mass energy 13 TeV. These decays are observed with a significance exceeding five standard deviations. In this study, the branching fraction of both decays Bs->Psi(2S)Ks and B->Psi(2S)Ks pi+pi- relative to the B->Psi(2S)Ks decay are measured.

Session

Beyond the Standard Model

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Session Classification: Poster - 3