## WIN2019 The 27th International Workshop on Weak Interactions and Neutrinos.



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## **Heavy Flavor Spectroscopy at CMS**

Thursday, 6 June 2019 12:16 (22 minutes)

We report new results in heavy flavor spectroscopy, using pp collision data collected by the CMS experiment at the LHC, including the observation of two excited Bc states and the study of the B->J/Psi Lambda p decay. The first analysis is based on an event sample corresponding to a luminosity of 143 fb $^-$ 1 at sqrt(s)=13 TeV. The Bc excited states are observed in the Bc pipi invariant mass spectrum, with the ground state reconstructed through its decay to J/Psi pi. The second analysis uses a data set of 19.6 fb $^-$ 1 collected at sqrt(s)=8 TeV. The Branching Ratio of this decay is measured with respect to BR(B+ -> J/Psi K $^+$ ) and the invariant mass distributions of the J/Psi Lambda, J/Psi p and Lambda p systems are investigated

## Collaboration name

**CMS** 

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