



Contribution ID: 164

Type: **Presentation**

Heavy Flavor measurements and production studies at CMS

Tuesday, August 1, 2017 2:57 PM (18 minutes)

Using data collected by the CMS experiment at the LHC, we performed precise measurements of decay properties of hadrons containing a b quark. The lifetime is a fundamental property of particles and an important observable in heavy hadrons physics. We measured this quantity for various b-hadrons at the precision of the world average. These measurements will allow to test QCD inspired theoretical models. We have also measured the differential prompt production cross sections of J/ψ , $\psi(2S)$, and $Y(nS)$ ($n = 1, 2, 3$) vector mesons in pp collisions at 13 TeV. These results will contribute to consolidate the underlying hypotheses of NRQCD and provide further input to constrain the theory parameters.

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Session Classification: QCD

Track Classification: QCD