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Contribution ID: **343** Type: **3a) Heavy-flavours and quarkonia (TALK)**

B_s and B^+ meson nuclear modification factors in PbPb collisions at 5.02 TeV with the CMS detector

Tuesday 2 October 2018 10:00 (20 minutes)

Beauty quark production in heavy-ion collisions is considered to be one of the key measurements to address the flavour-dependence of in-medium energy loss in heavy-ion collisions. On the other hand, the measurement of the production of strange beauty mesons can provide fundamental insights into the relevance of mechanisms of beauty recombination in the quark-gluon plasma. In this talk, CMS will present the nuclear modification factor, R_{AA}, of fully reconstructed B_s and B^+ mesons as a function of transverse momentum at $\sqrt{s_{NN}} = 5.02$ = 5.02 TeV in PbPb collisions for the first time. The R_{AA} double ratio between B_s and B^+ is also presented.

Summary

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