

## $B_s$ 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

**Presenter:** FALMAGNE, Guillaume

**Session Classification:** Parallel 3