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Open beauty production and modifications in PbPb collisions at 5.02 TeV with CMS

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Beauty production and phenomena in heavy-ion collisions are considered to be one of the key measurements to address the flavour-dependence of in-medium energy loss in PbPb collisions at the LHC. The CMS experiment has excellent capabilities for measuring b-quark production thanks to the excellent performances of its muon and tracker system, allowing the measurement of J/Ψ mesons from B meson decays, separately from prompt production, as well as fully reconstructed B mesons. In this talk, CMS will present the measurement of the R_{AA} for J/Ψ produced in B meson decays, in PbPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV, as a function of transverse momentum, rapidity and event centrality. As well as the measurement of R_{AA} for fully reconstructed B mesons in PbPb collisions at 5.02 TeV.

Primary author: WANG, Ta-Wei (Massachusetts Inst. of Technology (US))

Presenter: WANG, Ta-Wei (Massachusetts Inst. of Technology (US))

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