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Measurement of medium effects on B^+ meson production (B^+R_{pPb}) in pPb collisions at LHC energies with the CMS detector

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Motivated by the study of beauty quarks to probe the evolution of the nuclear medium, we performed a measurement of the B^+ meson production pPb collisions and its nuclear modification factor. We present the results as a function of p_T and charged multiplicity, using data recorded with the CMS detector in 2013 (5.02 TeV) and 2016 (8.16 TeV). The results are presented in a large p_T range and a wide pseudo-rapidity interval with a comparison with the FNOLL calculations. These measurements contribute to characterize effects of beauty quark diffusion, energy loss and the understanding of its collective behavior.

Present via

Online

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