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Ψ(2S) and J/Ψ modification in pPb collisions at 5.02 TeV with CMS

A variety of effects modify the charmonium production in pPb collisions with respect to pp collisions, like modification of nPDFs, initial-state energy loss and nuclear break-up. The forward/backward ratio of the J/Ψ, previously measured by CMS, is particularly sensitive to such effects. However, both nPDF and initial-state energy loss should modify the ground and excited state in a similar way, while evidence for a different modification of the J/Ψ and Ψ(2S) in pPb have been reported by other experiments. In this presentation, final prompt J/Ψ results in pPb collisions at 5.02 TeV will presented, including the new measurement of the R_{pA} using the 2015 pp data taken at the same energy. New results will also be reported regarding prompt Ψ(2S) meson production in pPb collisions, as a function of transverse momentum and rapidity and down to p_T = 4 GeV.

Preferred Track

Quarkonia

Collaboration

CMS

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