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Inclusive J/ψ and ψ(2S) production in p-Pb collisions at √sNN = 5.02 TeV with ALICE at the LHC

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Charmonia are considered as a key observable for deconfinement in nucleus- nucleus (A-A) collisions at LHC energies. Measurements in proton-nucleus (p-A) collisions provide important information to investigate nuclear effects, which are commonly not attributed to the Quark-Gluon Plasma.
In ALICE, J/ψ production has been measured in proton-proton, p-A and A-A collisions down to pT = 0 GeV/c both via their dimuon decay in the forward muon spectrometer and with dielectrons in the central barrel. √
In this talk, results on the J/ψ nuclear modification factor RpA at sNN = 5.02 TeV as a function of rapidity, covering the forward (2.03 < ycms < 3.53), central (-1.37 < ycms < 0.46) and backward range (-4.46 < ycms < -2.96), will be presented as well as RpA(pT). Results on ψ(2S) at forward and backward rapidity will also be discussed. Finally, comparisons with theoretical models will be carried out.

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