

Inclusive J/ψ and $\psi(2S)$ production in p-Pb collisions at $\sqrt{s_{NN}} = 5.02$ 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 $p_T = 0$ 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 R_{pA} at $s_{NN} = 5.02$ TeV as a function of rapidity, covering the forward ($2.03 < y_{cms} < 3.53$), central ($-1.37 < y_{cms} < 0.46$) and backward range ($-4.46 < y_{cms} < -2.96$), will be presented as well as $R_{pA}(p_T)$. Results on $\psi(2S)$ at forward and backward rapidity will also be discussed. Finally, comparisons with theoretical models will be carried out.

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