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J/psi production in p-Pb collisions with ALICE at the LHC

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ALICE, the dedicated heavy-ion detector at the LHC, observed J/psi suppression in Pb-Pb collisions at $\sqrt{s_{NN}}=2.76$ TeV. The interpretation of that observation can be helped by performing a similar measurement in p-Pb collisions, where only cold nuclear matter effects are relevant. In this talk we will show results on inclusive J/psi production in p-Pb collisions at $\sqrt{s_{NN}}=5.02$ TeV in the rapidity domains $2.03 < y_{cms} < 3.53$ and $-4.46 < y_{cms} < -2.96$. The J/psi measurement is performed in the Muon Spectrometer through the $\mu+\mu-$ decay mode, down to zero transverse momentum. Cross-sections and nuclear modification factors, integrated as well as differentially in y and p_T , will be presented and will be compared to available theory calculations.

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