Contribution ID: 46 Type: Poster

## J/psi production in Pb-Pb collisions at sqrt(sNN) = 2.76 TeV with ALICE at the LHC

The ALICE Experiment at the Large Hadron Collider (LHC) provides excellent capabilities to study charmonium production at low transverse momentum  $(p_{\rm T})$ . At central (|y|<0.9) and forward rapidity (2.5< y<4),  ${\rm J}/\psi$  are reconstructed via their leptonic decay channels down to  $p_{\rm T}$  = 0. We will present ALICE results on the inclusive  ${\rm J}/\psi$  nuclear modification factor  $R_{\rm AA}$  as a function of collision centrality, rapidity and p\_\mathrm{T}, as well as results on the  ${\rm J}/\psi$   $\langle p_{\rm T}\rangle$  in Pb-Pb collisions at  $\sqrt{s_{\rm NN}}=2.76$  TeV. At mid-rapidity, we will also report the separation of prompt and non-prompt  ${\rm J}/\psi$  down to p\_\mathrm{T}=1.3 GeV/c. The measurements provide, in combination with results from lower energies and theoretical predictions, detailed information on the different mechanisms related to the presence of the hot medium produced in heavy-ion collisions.

Primary author: Dr BOOK, Julian (Goethe University Frankfurt)

**Presenter:** Dr BOOK, Julian (Goethe University Frankfurt)

Track Classification: Collective Phenomena in High Energy Collisions