



Contribution ID: 7

Type: not specified

Bottomonia suppression in 2.76 TeV Pb-Pb collisions

Tuesday 30 August 2016 19:20 (20 minutes)

We compute the QGP suppression of $\Upsilon(1s)$, $\Upsilon(2s)$, $\Upsilon(3s)$, χ_{b1} , and χ_{b2} states in $\sqrt{s_{NN}} = 2.76$ TeV Pb-Pb collisions. Using the suppression of each of these states, we estimate the inclusive R_{AA} for the $\Upsilon(1s)$ and $\Upsilon(2s)$ states as a function of N_{part} , y , and p_T including the effect of excited state feed down. We find that our model provides a reasonable description of preliminary CMS results for the N_{part} , y , and p_T -dependence of R_{AA} for both the $\Upsilon(1s)$ and $\Upsilon(2s)$. Comparing to our previous model predictions, we find a flatter rapidity dependence, thereby reducing some of the tension between our model and ALICE forward-rapidity results for $\Upsilon(1s)$ suppression.

Literature:

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Summary

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Session Classification: Section D

Track Classification: Section D: Deconfinement