High Energy Physics - Phenomenology

Thermal Upsilon(1s) and chi_b1 suppression in sqrt(s_NN)=2.76 TeV Pb-Pb collisions at the LHC

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I compute the thermal suppression of the Upsilon(1s) and chi_b1 states in sqrt (s_NN)=2.76 TeV Pb-Pb collisions. Using the suppression of each of these states I estimate the total R_AA for the Upsilon(1s) state as a function of centrality, rapidity, and transverse momentum. I find less suppression of the chi_b1 state than would be traditionally assumed; however, my final results for the total Upsilon(1s) suppression are in good agreement with recent preliminary CMS data.

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