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Charmonium production in pp and PbPb collisions with the CMS experiment

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The measurement of $\Psi(2S)$ meson yield in PbPb collisions compared to the J/ψ meson is used to study the modifications of the charmonium production in PbPb due to effects like melting in the quark gluon plasma and statistical recombination. Previous results reported by the CMS Collaboration using pp and PbPb data at $\sqrt{s_{NN}} = 2.76$ TeV, have shown that the $\Psi(2S)$ meson is more suppressed than the J/ψ at midrapidity and high pt ($|y| < 1.6$, $pt > 6.5$), but slightly less suppressed at forward rapidity and intermediate pt ($1.6 < |y| < 2.4$, $pt > 3$). A new analysis is currently being performed using the pp and PbPb data collected at $\sqrt{s_{NN}} = 5.02$ TeV by the CMS Collaboration, and a brief summary of the analysis will be presented during the Doctoral School Days (no results will be shown since it is an ongoing analysis).

Auteur principal: M. STAHL, Andre Govinda (LLR)

Orateur: M. STAHL, Andre Govinda (LLR)

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