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## Charmonium production in pp and PbPb collisions with the CMS experiment

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The Psi prime (Psi(2S)) meson yield in PbPb collisions is of particular interest when compared to the J/psi meson. A variety of effects modify the charmonium production in PbPb collisions with respect to pp collisions, including melting in the quark gluon plasma and statistical recombination, which can have a different impact on the J/psi and the Psi(2S) mesons. Using pp and PbPb data at  $\sqrt{s_{NN}} = 2.76$  TeV, the CMS Collaboration has previously reported that the Psi(2S) meson is more suppressed than the J/psi at midrapidity and high pt ( $|y| < 1.6$ ,  $p_t > 6.5$ ), but a hint of less suppression at forward rapidity and intermediate pt ( $1.6 < |y| < 2.4$ ,  $p_t > 3$ ). New results on the relative J/psi and Psi(2S) modification, based on the pp and PbPb data recently collected at  $\sqrt{s_{NN}} = 5.02$  TeV by the CMS Collaboration, will be reported.

### On behalf of collaboration:

CMS

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