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## **Charmonium production in PbPb collisions at 5.02 TeV with CMS**

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Charmonium states, such as the  $J/\psi$  and  $\psi(2S)$  mesons, are excellent probes of the deconfined state of matter, the Quark-Gluon Plasma (QGP). The understanding of charmonia production in PbPb collisions requires the inclusion of many phenomena, such as dissociation in the QGP and statistical recombination, on top of cold nuclear matter effects. In this talk, final results on the relative  $J/\psi$  and  $\psi(2S)$  modification, based on the pp and PbPb data collected at  $\sqrt{s_{NN}} = 5.02$  TeV by CMS in 2015, will be reported. The results are compared to those obtained at  $\sqrt{s_{NN}} = 2.76$  TeV over a similar kinematic range.

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