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Suppression of charmonia states in Pb+Pb collisions at 5.02 TeV with the ATLAS detector

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The suppression of heavy quarkonia states in heavy-ion collisions is a phenomenon understood as a consequence of QGP formation in the hot, dense system produced in high-energy heavy ion collisions. A full assessment of the physics scenario requires a detailed study of effects present in Pb+Pb, in comparison to pp collisions. Using Pb+Pb data collected in 2015 at the LHC by the ATLAS experiment at $\sqrt{s_{NN}}=5.02$ TeV we have studied prompt and non-prompt J/ψ and $\psi(2S)$ productions via their di-muon decay channel. In this poster, ATLAS will present in detail how the separation of prompt and non-prompt signal is performed, as well as the description of the systematic uncertainties and technical details of the yield and suppression measurements.

Content type

Experiment

Collaboration

ATLAS

Centralised submission by Collaboration

Presenter name already specified

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