

10th International Conference on Hard and Electromagnetic Probes of High-Energy Nuclear Collisions



Contribution ID: 53

Type: Poster

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

Tuesday 2 June 2020 07:30 (1h 20m)

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. In this poster, we present the results from the studies of prompt and non-prompt J/ψ and $\psi(2S)$ productions via their di-muon decay channel in 5.02 TeV Pb+Pb collisions collected by the ATLAS experiment at the LHC. We also 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.

Collaboration (if applicable)

ATLAS

Track

Electroweak Probes

Contribution type

Poster

Authors: COLLABORATION, ATLAS; ZIVKOVIC, Lidija (Institute of physics Belgrade (RS))

Presenter: KRIVOS, Martin (Charles University (CZ))

Session Classification: Poster session

Track Classification: Electroweak Probes