



Contribution ID: 247

Type: **Parallel Talk**

Measurement of quarkonia production in heavy-ion collisions with the ATLAS detector

Thursday 6 July 2017 09:45 (15 minutes)

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 formed in heavy-ion collisions at the LHC. In addition to hot matter effects in heavy-ion collisions, cold nuclear effects may also affect quarkonia production. Therefore, a full assessment requires detailed studies on the effects present in both A-A and p+A collisions. Based on p+Pb data collected in 2013 and pp and Pb+Pb data collected in 2015 at the LHC, the ATLAS experiment has studied prompt and non-prompt J/psi and psi(2S) productions as well as Upsilon production via the di-muon decay final states. The results of the various measurements are discussed.

Experimental Collaboration

ATLAS Collaboration

Primary author: ATLAS, Collaboration**Presenter:** KREMER, Jakub Andrzej (AGH University of Science and Technology (PL))**Session Classification:** Heavy ion physics**Track Classification:** Heavy Ion Physics