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Measurement of the W,Z and photon production in lead-lead collisions at sqrt(s_NN) = 2.76 TeV with ATLAS detector

Thursday, 31 May 2012 09:00 (30 minutes)

The color neutral bosons are an unparalleled probes of the hot and dense matter produced in relativistic heavy ion collisions at LHC. Because the decay products do not carry color charges, the W and Z bosons allows us insight into the initial hard scattering that produced it and provides a clean test of our understanding of the collision. In particular, the yield of bosons in heavy ion collisions is a sensitive test of binary scaling. The ATLAS experiment has measured W and Z boson yield via leptonic decay modes in Pb+Pb collisions with sqrt(s_NN)=2.76 TeV in a data sample corresponding to 148 ub^-1 of integrated luminosity. The measurement of W,Z boson production and their properties will be presented.

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