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Broad eta Range Survey of $1/N dN_{ch}/d\eta$ at the LHC

Tuesday, 29 September 2015 16:30 (2 hours)

We present the charged particle pseudo-rapidity density in Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV with an extended centrality dependence, and in p-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV over a broader pseudo-rapidity range. In the forward regions where the signal is dominated by secondary particles produced in surrounding material, we use a data-driven correction to extract the charged primary particle density. We compare our results to predictions of various models, and show that none of these models capture all of the aspects of the full distribution. This talk extends the previous results reported by ALICE into more peripheral collisions and with higher granularity for Pb-Pb and broader range in pseudo-rapidity for both p-Pb and Pb-Pb.

On behalf of collaboration:

ALICE

Primary author: CHRISTENSEN, Christian Holm (University of Copenhagen (DK))

Presenter: CHRISTENSEN, Christian Holm (University of Copenhagen (DK))

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