

Abstract Submitted
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Forward and backward rapidity long-range correlation in p-Pb collisions at $\sqrt{s_{NN}}=5.02$ TeV with the ALICE detector YUKO SEKIGUCHI, University of Tokyo, ALICE COLLABORATION — Measurements of the particle correlations are very useful to investigate the underlying mechanism and the dynamics of particle production in high-energy nucleus-nucleus collisions. Long range, near side angular correlations have been observed in high multiplicity p-p and p-Pb collisions at the LHC energy. Possible explanations of the long range correlations in high multiplicity p-p and p-Pb collisions are the collective behavior of the created medium and/or the remnants of the strong color fields created by the dense gluonic field (gluon saturation). The saturation effects are expected to be enhanced at forward rapidity region and the measurements of the particle productions with large rapidity gaps and the centrality dependence are important to quantify saturation and hydrodynamical final state effects. The two-particle correlations are measured with VZERO and TPC, where the ALICE VZERO detectors cover $-3.7 < |\eta| < -1.7$ in backward and $2.8 < |\eta| < 5.1$ in forward. The status of the data analysis for p-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV will be presented.

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