

Abstract Submitted
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Particle-yield modification in jet-like azimuthal di-hadron correlations in Pb-Pb collisions at 2.76 TeV with ALICE MINWOO KIM, None, ALICE COLLABORATION — The one of the main goals of the research in heavy-ion collisions is to study the properties of a deconfined quarks and gluons, Quark-Gluon Plasma(QGP). Due to the gluon radiation and the multiple scattering inside hot and dense medium, propagating partons lose their energy and it causes interesting phenomenon called jet quenching. However it is a challenge to reconstruct full jets including low p_T because of background fluctuations from underlying events like elliptic flow. At this point, the powerful method, two-particle correlation provides convenient way to understand the medium effect on the jet fragmentation without full reconstruction of jets. We present the particle-yield modification in jet-like azimuthal di-hadron correlations in Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV with ALICE. By subtracting long-range correlation with $\Delta\eta$ gap condition, we could distinguish jet-like particles from large backgrounds coming from collective effects. The near-side peak shapes have been studied for various p_T bins of triggered and associated particles. Extracted parameters from the fits allows to understand the properties of near-side peaks. The ratio of the yields, I_{AA} and I_{CP} with respect to p_T of associated particles are also measured.

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None

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