



Contribution ID: 73

Type: Talk

Study of h-h and V0-h angular correlations in Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV

Tuesday, 23 July 2013 15:20 (20 minutes)

Two-particle angular correlations provide a powerful tool to study jets and their modification in ultra-relativistic heavy-ion collisions. The study of the particle species dependence of correlation structures as a function of transverse momentum provides additional information on the particle production mechanisms at LHC energies.

In this contribution we will present studies of a near-side jet-like correlation peak in (η, ϕ) space for Pb-Pb collisions at

$\sqrt{s_{NN}} = 2.76$ TeV. The measurement is performed using the correlations formed by pairs of high p_T ($6 < p_{T_trig} < 15$ GeV/c), and Λ , $\bar{\Lambda}$, K^0_S (trigger particles) associated with unidentified charged hadrons in the transverse momentum range $3 \text{ GeV}/c < p_{T_assoc} < p_{T_trig}$. The jet-like peak yield and width for different trigger strange particles are investigated as a function of p_{T_trig} , p_{T_assoc} and collision centrality.

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Session Classification: Strangeness 1