

Untriggered di-hadron correlations in PbPb $\sqrt{s_{NN}} = 2.76$ TeV collisions from the ALICE experiment

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We present measurements of untriggered di-hadron correlations as a function of centrality in Pb-Pb $\sqrt{s_{NN}} = 2.76$ TeV collisions, for charged hadrons with $p_T > 0.15$ GeV/c. These measurements provide a map of the bulk correlation structures in heavy-ion collisions. Contributions to these structures may come from jets, initial density fluctuations, elliptic flow, and/or momentum conservation. We will decompose the measured correlation functions via a multi-parameter fit in order to extract the soft ridge; the long range $\Delta(\eta)$ correlation on the nearside observed at RHIC energies. The effect of including higher harmonics (v_3 and v_4) in this procedure will be discussed. We will compare our results to various theoretical predictions based on differing schemes for the initial conditions. Finally, we will investigate empirical scalings (such as the number of binary collisions) for the various contributions as a function of centrality, which may also help determine their origin.

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