

Hadron correlations in ALICE

Tuesday, 29 May 2012 10:00 (25 minutes)

Particle correlations are a powerful tool to study collective effects and in-medium jet modification as well as their interplay in the hot and dense medium produced in central heavy-ion collisions. The talk presents measurements of two-particle correlations of inclusive charged and identified particles with the ALICE detector. We study the short-range correlation region and quantify the shape and particle content of the near-side peak. The results suggest strong modifications of the peak shape and particle ratios in central Pb-Pb collisions, compared to proton-proton or peripheral data. We compare to MC models and discuss the importance of the inclusion of collective effects in these models.

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