Contribution ID: **70** Type: **Oral presentation**

p/pi ratio in jet and bulk region in heavy ion collisions

Monday, 28 May 2012 16:30 (20 minutes)

An important open question regarding hadronization in heavy-ion collisions is to understand the baryon enhancement at intermediate pT observed at RHIC. In this work we analyze the p/π ratio in the associated yield (pT < 5.0 GeV/c) correlated to a high-pT trigger (pT > 5.0 GeV/c) in central Pb–Pb collisions. For this analysis we used Pb–Pb data taken by the ALICE detector at a center of mass energy of √s_NN = 2.76 TeV.

We measure the p/π ratio in the near-side jet peak, as well as in the near-side ridge region at large Δη, to distinguish between hadrons originating from hard partons and hadrons originating from the hot and dense QCD medium. We observe that at intermediate pT the p/π ratio in the jet peak is much lower than in the ridge region.

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Session Classification: Parallel IIB: Jet quenching and energy loss