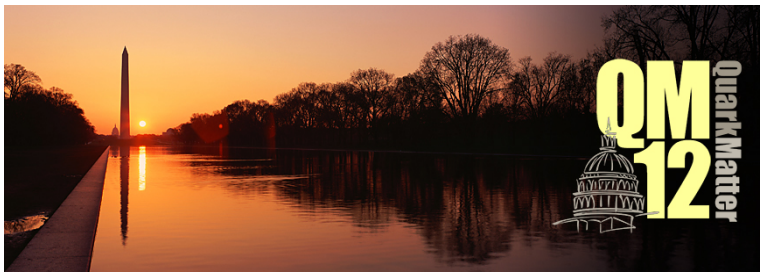

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Hadron-jet correlations measured in pp and Pb-Pb collisions in LHC-ALICE

Thursday, 16 August 2012 16:00 (2 hours)

Heavy-ion experiments at the highest beam energy in the world (Pb-Pb at sqrt(s_NN) = 2.76 TeV) have started in 2010 at the Large Hadron Collider (LHC) at CERN. At the LHC, jet production is more abundant than at RHIC. Jet measurements play a critical role not only for probing the hot and high energy density matter in heavy ion collisions through parton energy loss, but also to observe possible modifications of the hot and dense matter itself by the lost energy.
Hadron-jet correlations allow us to maximize the pathlength of the parton through the medium by selecting trigger hadrons with high transverse momenta that are biased to coming from the surface of the QGP.
In this poster, we report the current analysis status of the recoil jet yield with charged particle triggers in Pb-Pb collisions from 2011 at sqrt(s_NN) = 2.76 TeV. We will also compare these results with correlation from baseline pp measurements at the same collision energy.

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