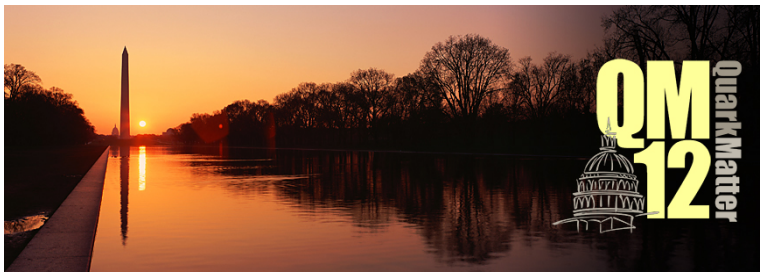

Contribution ID: **241** Type: **Oral Presentation**

Jet shapes in 2.76 TeV PbPb collisions with CMS

Saturday, 18 August 2012 09:40 (10 minutes)

The poster presents jet shapes, defined as the fractional transverse momentum distribution as a function of the distance r from the jet axis, where the jets are reconstructed by the anti-kT clustering algorithm. We determine the energy flow inside the jet by using particles reconstructed and calibrated using the Particle Flow algorithm. Different background subtraction methods are employed to subtract the energy not associated with the jet. The reconstructed jet shapes are corrected to the particle level using unfolding functions determined from PYTHIA+HYDJET Monte Carlo simulation. The modifications of the jet shapes due to parton-medium interactions can be studied by comparing the measurements in PbPb collision to the baseline measurements in pp collisions.

Primary author: CMS, Collaboration (CERN)

Presenter: Ms MAO, Yaxian (Vanderbilt University (US))

Session Classification: Plenary VIB: Flash Talks

Track Classification: Jets