



Contribution ID: 216

Type: Oral Presentation

Jet shapes in pp and PbPb collisions at the CMS Experiment

Wednesday 15 August 2012 09:10 (20 minutes)

Jet shape measurements are important for many applications. When measured in pp collisions they can be used to constrain generator and showering settings. When measured in PbPb collisions they can be used to probe for distortions from energy loss in the hot and dense medium. Fully unfolded jet shape measurements will be presented and compared with generator expectations in 7 TeV pp collisions, corresponding to an integrated luminosity of 36pb^{-1} . In addition, jet shape measurements in PbPb collisions will be presented and compared with observations in 2.76 TeV pp collisions to probe for the effects of suppression from the medium. The full PbPb data set collected in 2011 is analyzed, corresponding to an integrated luminosity of $150\mu\text{b}^{-1}$. The jets are reconstructed with the anti-kT clustering algorithm by utilizing particle-flow objects with a radius parameter $R=0.7$ and $R=0.3$.

Author: CMS, Collaboration (CERN)

Presenter: KURT, Pelin (Vanderbilt University (US))

Session Classification: Parallel 3B: Jets (Chair S. Mioduszewski)

Track Classification: Jets