

Jet yield enhancement in high-tower trigger events with the ALICE Electromagnetic Calorimeter

The ALICE detector carries out comprehensive measurements of high energy nucleus-nucleus collisions. Jet reconstruction in ALICE is enabled by combining charged particle measurements in the central tracking system, and neutral particle measurements in the Electromagnetic Calorimeter (EMCal). In this poster, we will show the jet yield enhancement using the EMCal high-tower (HT) trigger, compared to minimum bias (MB) trigger, taken in p+p collisions at $\sqrt{s}=2.76\text{TeV}$ in 2011. Comparison of the two spectra enables determination of the gain in statistics and assessment of HT trigger bias. This work will lead to a measurement of the inclusive differential jet cross-section.

Primary author: MA, Rongrong (Yale University)

Presenter: MA, Rongrong (Yale University)

Track Classification: Jets