

Photon-tagged Jet Fragmentation Functions in pp and PbPb Collisions at 5.02 TeV with CMS

Tuesday 22 August 2017 14:00 (30 minutes)

Correlations of electroweak probes, jets and charged particles have been proposed as one of the most powerful tools to study medium modifications of jet fragmentation function. Measurements of jet fragmentation functions provide strong constraints on the jet quenching mechanisms in heavy ion collisions. Latest measurements of photon-tagged jet fragmentation function in pp and PbPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV collision energy using the CMS detector data will be reported. These measurements provide information about the substructure of jets in the previous photon+jet azimuthal and momentum correlation studies performed by the CMS experiment. Significant modification of jet fragmentation function is observed in the kinematics ranges studied.

Presenter: TATAR, Kaya (Massachusetts Inst. of Technology (US))

Session Classification: Workshop session