

10th International Conference on Hard and Electromagnetic Probes of High-Energy Nuclear Collisions



Contribution ID: 200

Type: Oral Presentation

Parton modification studies using electroweak-boson-tagged hadrons with pp and PbPb collisions at 5.02 TeV with the CMS experiment

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Electroweak bosons can be used to constrain the kinematics, as well as the flavor, of the recoiling parton, before its interaction with the quark-gluon plasma. While photons are more abundant, they suffer from larger systematic uncertainties, particularly at low transverse momentum (p_T), from the background photons from neutral meson decays. Tagging with Z bosons is a complementary way to study modifications of low p_T partons as well as the soft particles from the medium response. The talk will present studies of kinematics correlations between electroweak bosons and charged particles in pp and PbPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV using data collected with the CMS detector.

Collaboration (if applicable)

CMS

Track

Jets and High Momentum Hadrons

Contribution type

Contributed Talk

Primary author: PETRUSHANKO, Serguei (M.V. Lomonosov Moscow State University (RU))

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

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