

# 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

*Thursday 4 June 2020 11:55 (20 minutes)*

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

**Author:** PETRUSHANKO, Serguei (M.V. Lomonosov Moscow State University (RU))

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

**Session Classification:** Parallel

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