



Contribution ID: 45

Type: **Parallel session**

## Application of the jet charge in electroweak and Higgs physics

*Thursday, 30 November 2023 11:20 (15 minutes)*

Quarks and gluons produced in high-energy particle collisions hadronize before their electric charge can be directly measured. However, information about the electric charge is embedded in the resulting collimated sprays of hadrons known as jets. One jet observable sensitive to the electric charge of quarks and gluons is the momentum-weighted charge sum constructed from charged-particle tracks in a jet, which is called jet charge. In this talk, I will discuss the possible application of the jet charge in the electroweak and Higgs physics.

### You are

non-PhD student

**Primary author:** Prof. YAN, Bin (IHEP)

**Presenter:** Prof. YAN, Bin (IHEP)

**Session Classification:** Parallel: Precision & Yukawas

**Track Classification:** Precision & Yukawas