



ID de Contribution: 8

Type: Non spécifié

b-jet tagging in p-p with Boosted Decision Trees with the ALICE experiment

mercredi 3 décembre 2025 09:00 (25 minutes)

My PhD thesis is the measurement of beauty production in proton-proton and Pb-Pb collisions with the ALICE experiment at the CERN LHC and my talk will focus on a crucial part in the study of b-jet production: b-jet tagging.

I will compare two methods for b-jet tagging: the Track Counting method which relies on impact parameter significance, and Boosted Decision Trees (a machine learning technique). The comparison relies on two quantities: the efficiency and the purity of the b-jet tagging methods.

I will also mention the use of impact parameter for the rejection of pile-up in the data, as well as pile-up rejection with Boosted Decision Trees.

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Classification de Session: Hadronic Physics

Classification de thématique: Hadronic Physics