Contribution ID: 36 Type: not specified

Flavour tagging performance studies in the ATLAS experiment

The identification of jets containing b-hadrons (b-jets) is an important ingredient in the physics program of the ATLAS experiment. The student will evaluate the performance of existing b-tagging algorithms and FTAG tools used in ATLAS and propose and implement optimisation to improve the b-jet efficiency. The student will also compare the performance of the flavour tagging algorithms in different simulated events and in ATLAS Run3 data.

Group

FH-ATLAS

Project Category

B1. Physics Data Analysis and Performance (software-oriented)

Special Qualifications

Python, b-jet physics

Primary authors: PETERS, Krisztian (ATLAS (ATLAS Beyond Standard Model)); KUMARI, Neelam (ATLAS (ATLAS SM and Beyond))