



Contribution ID: 33

Type: **Plenary Talk**

Tagging of jets initiated by individual b/c-quarks or b-quark pairs in ATLAS (20'+10')

Wednesday, July 24, 2019 11:30 AM (30 minutes)

The production of jets initiated by heavy flavour quarks (b-quarks and c-quarks) is important in many contexts, especially including studies of particles which couple more strongly to massive particles, such as the Higgs boson. The distinct properties of these b-jets and c-jets can be identified by the ATLAS detector and differentiated with respect to jets initiated by light quarks and gluons, where the algorithms used for tagging such heavy flavour jets will be discussed. Additionally, the identification of boosted decays of massive particles to pairs of b-quarks reconstructed within a single large-R jet will be presented, together with methods to evaluate the the differences between simulation and data.

Presenter: JACOBS, Ruth Magdalena (University of Bonn (DE))

Session Classification: Session