Contribution ID: **5** Type: **not specified**

DeepFlavour in CMS

Tuesday, March 21, 2017 10:35 AM (20 minutes)

Flavour-tagging of jets is an important task in collider based high energy physics and a field where machine learning tools are applied by all major experiments. A new tagger (DeepFlavour) was developed and commissioned in CMS that is based on an advanced machine learning procedure. A deep neural network is used to do multi-classification of jets that origin from a b-quark, two b-quarks, a c-quark, two c-quarks or light colored particles (u, d, s-quark or gluon). The performance was measured in both, data and simulation. The talk will also include the measured performance of all taggers in CMS. The different taggers and results will be discussed and compared with some focus on details of the newest tagger.

Presenter: STOYE, Markus (CERN)

Session Classification: Identification and Tagging Mini-Workshop