

5th International workshop on heavy quark production in heavy-ion collisions



Contribution ID: 62

Type: **not specified**

Heavy Quark Production in Pb-Pb Collisions at the LHC with the ATLAS Detector

Friday, 16 November 2012 14:00 (30 minutes)

Bottom quarks are important probes to study the hot, dense medium produced in the heavy ion collisions. These heavier quarks are produced at a relatively early stage of the nucleus-nucleus collisions and may have reduced gluon radiation due to the suppression of small angle gluon radiation known as the 'dead cone effect'. Because of the heavy mass of b-hadrons, muons from semi-leptonic b-hadron decays tend to have a larger angle with respect to the jet axis. This information can be used to tag b-jets. In this talk, we present the inclusive heavy flavor suppression in Pb+Pb collisions at 2.76 TeV, which was obtained by studying single muons decaying semi-leptonically from the b- and c-quark containing hadrons.

Primary author: PRZYBYCIEN, Mariusz (AGH University of Science and Technology (PL))

Presenter: PRZYBYCIEN, Mariusz (AGH University of Science and Technology (PL))

Session Classification: HF decays leptons