



Contribution ID: 156

Type: **not specified**

## Charged particle nuclear modification factor in PbPb at 5.02 TeV with CMS

*Sunday, 25 September 2016 08:50 (20 minutes)*

In the high-luminosity 5.02 TeV collision-energy per nucleon pair PbPb and pp data provided by LHC in 2015, CMS measured the nuclear modification factor of charged particles from a transverse momentum of 0.7 GeV/c to 400 GeV/c in the central rapidity region. The centrality dependence of the nuclear modification factor is explored in several bins of collision centrality, from the most central 0-5% to the peripheral 50-70% centrality range. Comparisons of the measured nuclear modification factor of charged particles at 5.02 TeV are made to theory calculations and to measurements at lower collision energies. The nuclear modification factors are also compared to the measurements at 2.76 TeV with charged particles and fully reconstructed jets.

### Summary

### Presentation type

Oral

**Primary author:** BATY, Austin Alan (Massachusetts Inst. of Technology (US))

**Presenter:** BATY, Austin Alan (Massachusetts Inst. of Technology (US))

**Session Classification:** Parallel Session V: High pT hadron suppression in A+A (I)