



Contribution ID: 107

Type: **parallel talk**

Analytic control of jet substructure

Tuesday 10 May 2016 14:15 (15 minutes)

I will talk about the importance of boosted jets and jet substructure at the LHC. Then, I will make a comparison between techniques that discriminate two-pronged signals from QCD background using constraints on energy flow within boosted jets. To that aim, I focus on three commonly-used jet shapes: N-subjettiness, the mass-drop parameter and energy-correlation functions. I will show that we can understand their performance from first-principle QCD calculations and also compare the results with Monte-Carlo simulations.

Summary

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Session Classification: QCD & Electroweak