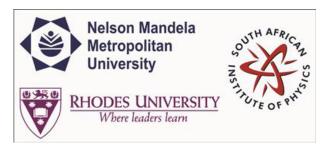
SAIP2015



Contribution ID: 61

Type: Oral Presentation

Jet substructure: a discovery tool at the LHC

Tuesday, 30 June 2015 14:20 (20 minutes)

Abstract content
 (Max 300 words)
Formatting &
Special chars

Jets are the collimated bunches of hadrons measured in our detectors,

created at high energy particle collisions. As we go to higher energies at the Large Hadron Collider (LHC), Higgs bosons, or yet undiscovered heavy particles are produced with very high energy and the decay products from these "boosted" particles tend to be contained in large radius jets. The internal structure of these jets is exploited to identify the original objects.

In this talk, I will motivate the use of substructure techniques for probing new physics at the LHC. I will then discuss the recent ATLAS results on

substructure measurements, including a very new and promising method called "shower deconstruction".

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