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## Jet measurements in LHC

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**Abstract content** <br> &nbsp;<br> (Max 300 words)<br><a href="http://events.saip.org.za/getFile.py/?target="\_blank">Formatting &<br>Special chars</a>

Jets are collimated bunch of hadrons, originating from quarks and gluons produced in proton-proton collisions at the Large Hadron Collider (LHC). LHC is a jet factory and jets are the most direct manifestations of perturbative and non-perturbative aspects to probe QCD in a hadron collider experiment. Several features of jet production such as inclusive jet cross section, dijet/multijet cross section, jet cross section ratios, as well as jet properties, such as angular (de)correlation between jets, and jet observables, such as jet charge, jet mass have been measured in LHC. These measurements are not only important for precision tests of QCD, but also in developing MC models in the new energy regime ever reached by any particle collider. Jet study is crucial both for hadronically decaying new resonances as well as in many new physics searches jets play as the most dominating background.

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