

Early new physics searches with jets at the LHC

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Many proposed models of new physics predict yet undiscovered particles which decay with high branching fractions into quarks, such as extra gauge boson or fourth generation quarks. The high branching fractions to quarks make searches in channels with jets in the final state attractive for investigations at low integrated luminosities or new phenomena with low production cross sections. The most challenging aspect of such analysis is the large background expected from standard model QCD processes.

The prospects of new discoveries in final states with jets at the ATLAS and CMS experiment at the LHC will be presented.

Primary author: Dr MOZER, Matthias (Vrije Universiteit Brussel)

Presenter: Dr MOZER, Matthias (Vrije Universiteit Brussel)

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