

Search for the Higgs boson in multi-jet events with the ATLAS detector

lundi 2 décembre 2013 12:00 (25 minutes)

I present the search of the Higgs boson particle, decaying into two b-quarks produced in association with two top quarks with the ATLAS detector at the LHC. The presentation introduces the motivation for this challenging physics search and the description of the phenomenology of this final state. I present previous ATLAS results related to my analysis, jet trigger studies I performed and finally describe in details several instruments available to reject the different types of background, such as b-tagging and Multi Variate Analysis.

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Classification de Session: Modèle Standard

Classification de thématique: Modèle Standard Electrofaible