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Study of b- and c-jets identification for Higgs coupling measurements at Muon Collider

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The Muon Collider is a possible option for the next generation of high energy collider machines. It would permit to achieve very high energy in the center of mass using leptons without occurring in a significant synchrotron radiation losses as in the electrons rings. Due to the muon decay, the detector has to sustain a high level of background: beam decay products and subsequent particles from secondary interactions with the machine elements can reach the interaction point, limiting the physical performances of the detector. Nevertheless, this machine offers the possibility to produce a lot Higgs bosons events to allow the precise determination of the b- and c-quark couplings. In this talk studies on the identification of b- and c-jets in the Muon Collider environment will be presented. Prospects on the measurement of the Higgs couplings to the b- and c-quark will be discussed.

speaker known

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