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Limits on top FCNC decay $t \rightarrow cH$ from CLIC at 380 GeV

Tuesday, 29 August 2017 10:30 (20 minutes)

Prospects for measuring top FCNC decays at 380 GeV were studied with the full simulation samples including signal sample generated with the WHIZARD implementation of the 2HDM(III) model and the standard six-fermion event samples used for top pair production studies. Analysis was divided into three steps: event classification, kinematic reconstruction based on signal or background hypothesis and final signal vs background discrimination. To obtain optimal results, selection criteria based on the dedicated Boosted Decision Tree (BDT) response were used at each step. Expected limits on $BR(t \rightarrow cH) \cdot BR(H \rightarrow bb)$ are presented.

15 minutes presentation + 5 minutes discussion

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