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Top signals of a FCNC Z' model

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Models with a non-universal Z' exhibit in general flavor changing neutral currents FCNC at tree-level. When the Z' couplings favor the third generation, flavor changing transitions of the form $Z'tc$ and $Z'tu$ could be large enough to be observable at the LHC. In this talk I will discuss some interesting LHC signatures of (a) associated production of a top with the Z' , and, (b) the same sign tops when only one of the aforementioned flavor violating coupling is present. In case of later we will also discuss about the top quark reconstruction from the same sign dileptons using the recently invented variable MT_2 .

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