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## **Search for Flavor Changing Neutral Current associated with a top quark and a Z boson at the CMS experiment**

In this poster, we present recent results from studies of flavor-changing neutral current (FCNC) processes involving a top quark, a Z boson, and an up or charm quark in the final state. The analysis is based on proton-proton collision data collected by the CMS experiment during Run II of the Large Hadron Collider at a center-of-mass energy of 13 TeV. The search focuses on final states with three leptons and employs a multivariate analysis technique to enhance signal-to-background discrimination. Upper limits on the branching ratios  $\text{Br}(t \rightarrow Zq)$ , for  $q=u,c$  will be presented.

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