

Abstract Submitted
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Search for Single Top Quarks Produced via Flavor-Changing Neutral-Current Couplings at DØ SUPRIYA JAIN, University of California, Riverside, DZERO COLLABORATION — The large mass of the top quark, close to the electroweak symmetry-breaking scale, makes it a good candidate for probing physics beyond the Standard Model, including possible anomalous couplings. One form these couplings can take is with flavor-changing neutral currents, which can give rise to a single top quark in the final state through gluon exchange, together with a c or u quark in the initial or final state. We search for single top quark production through both the t - c - g and t - u - g couplings, using the DØ detector at the Fermilab Tevatron collider, and present limits on the anomalous coupling parameters κ_c/Λ and κ_u/Λ , where Λ defines the scale of new physics and κ_c (κ_u) defines the strength of the t - c - g (t - u - g) couplings.

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