

Abstract Submitted
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Top Quark Interactions in Simplified Dark Matter Models at the LHC ALEXANDER MORENO BRICENO, Universidad Antonio Narino — We investigate possible top quark spin correlation effects in Dark Matter (DM) production in association with a single top quark at the LHC in the context of Simplified Models where spin-0 and spin-1 particles mediate the interactions between the Standard Model (SM) sector and the DM sector. We discuss in detail the results of angular correlations and distributions of the top quark which may allow us to explore and establish constraints on the DM and SM interactions at the LHC.

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