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Top Quark Interactions in Simplified Dark Matter Models

Monday 30 September 2019 11:00 (30 minutes)

Constraints on the interactions between the Dark Matter (DM) sector and the Standard Model (SM) sector can be established at the LHC. We study possible top quark spin correlation effects on the interactions between DM and top quarks mediated by the exchange of spin-0 and spin-1 particles. We discuss in detail the results of angular correlations and distributions of the top quark which may allows us to explore DM interactions at the LHC.

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