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Dark Matter produced in association with top quark pair

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LHC Search for Dark Matter produced in association with top quark pair is presented. The search is performed using 19.7 fb^{-1} of pp collisions recorded at a center of mass energy of 8 TeV with the CMS detector at LHC. The signature investigated is top quark pairs in semi-leptonic final state plus missing transverse energy. This work focuses in particular on Dark Matter production through scalar interaction where a proportionality to the quark mass is expected. This can enhance the discovery potential of the LHC under this assumption.

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