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Search for dark matter in association with a tt pair at sqrt(s) = 13 TeV in the dilepton channel with the CMS experiment

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A search is performed for dark matter produced in association with tt pairs in data from proton-proton collisions at a center-of-mass energy of 13 TeV at the LHC. The data correspond to 35.9 fb-1 collected with the CMS detector in 2016. The analysis looks for an excess of events with large imbalance in transverse momentum and a top quark pair. The results are interpreted in the context of simplified models of dark matter production. Assuming unitary coupling values to standard model (SM) particles g_q , and dark matter (DM) particles g_c , and DM mass m_c in g_t in

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