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Search for dark matter produced in association with bottom or top quarks in √s=13 TeV pp collisions with the ATLAS detector

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A wide search program is being carried on at the LHC under the hypothesis that Dark Matter (DM) consist of weakly interacting massive particles (WIMPs). Final states with heavy flavour quarks and large momentum imbalance represent an interesting discovery signature which allows to probe models with scalar or pseudoscalar interactions between the Standard Model and the Dark Sector under the assumption of Minimal Flavour Violation. We will present the most recent results of searches for DM produced in association with a pair of heavy flavour quarks (DM+HF) in ATLAS based on 36.1 fb-1 of proton-proton collision data collected at a centre of mass energy of 13 TeV.

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