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RECAST for Mono-S(bb) with ATLAS

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A RECAST of an existing ATLAS analysis is used to perform a search for dark matter produced in association with a dark Higgs boson decaying to two b-quarks from pp collisions at a centre-of-mass energy of $\sqrt{s} = 13$ TeV. RECAST is an analysis reinterpretation framework; since analyses are often sensitive to a range of models, RECAST can be used to constrain the plethora of dark matter models without the significant investment required for a new analysis. In this case, the ATLAS Z' -2HDM Mono-H(bb) analysis at 79.8 fb^{-1} integrated luminosity is used, due to the Z' -2HDM model's similar experimental signature to the dark Higgs model.

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