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Search for Dark Matter in association with a hadronically decaying Z' vector boson with the ATLAS detector in pp collisions at 13 TeV

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A search for dark matter pair production in association with a Z' boson in pp collisions, at 13 TeV, using 36.1 fb^{-1} of LHC pp collision data recorded with the ATLAS detector is presented. Events are characterised by large missing transverse momentum and a hadronically decaying vector boson reconstructed as either a pair of small-radius jets, or as a single large-radius jet with substructure. Results are interpreted in terms of simplified models which describe the interaction of dark matter and standard model particles.

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