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## Search for dark matter produced in association with a hadronically decaying vector boson at the ATLAS experiment

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A search for dark matter particles produced in association with a hadronically decaying W or Z boson with the ATLAS experiment at the LHC is reported. The search uses data corresponding to an integrated luminosity of 36.1/fb in proton-proton collisions at a centre-of-mass energy ( $\sqrt{s}$ ) of 13 TeV. No significant excess over the Standard Model prediction is observed. The search results are interpreted in terms of an effective field theory and a simplified vector-mediator model describing dark matter interactions with Standard Model particles.

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