

(2) Constraints on mediator-based dark matter and scalar dark energy models using \sqrt{S} = 13 TeV pp collision data collected by the ATLAS detector (JHEP 1905 (2019) 142)

(3) Search for dark matter in association with a Standard Model Higgs boson decaying into *b*-quarks using the full Run 2 dataset from the ATLAS detector (JHEP11 (2021) 209). (4) Combination and summary of ATLAS dark matter searches using 139 fb⁻¹ of \sqrt{S} = 13 TeV *pp* collision data and interpreted in a two-Higgs-doublet model with a pseudoscalar mediator (ATLAS-CONF-2021-036).

ERN