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Search for chargino-neutralino production using an emulated recursive jigsaw reconstruction technique in three-lepton final states with the ATLAS detector

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A search for supersymmetry through the pair production of electroweakinos is presented in a three-lepton final state. The analyzed proton-proton collision data taken at a centre-of-mass energy of $\sqrt{s}$ = 13 TeV was collected between 2015 and 2018 by the ATLAS experiment at the Large Hadron Collider, corresponding to an integrated luminosity of 139 fb^{-1}. The search emulates the recursive jigsaw reconstruction technique using conventional analysis variables, searching for low-mass chargino-neutralino pair production that decays to on-shell W and Z bosons. The technique is validated and the excess seen previously in 2015 and 2016 data is studied while incorporating new data.

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