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Mono-W/Z searches in ATLAS and CMS

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Searches for mono-W and Z bosons are presented in the hadronic+MET and dileptonic+MET channels using the ATLAS experiment and the mono-lepton+MET channel using CMS at the Large Hadron Collider. The full 2012 data set produced at a center of mass energy of 8 TeV is used comprising 20 fb⁻¹. No statistically significant deviation from the Standard Model is observed. Limits are set on the mass scale using novel effective field theory approaches which consider constructive interference in the mono-W final state as well as scenarios in which dark matter couples to the Standard Model sector through the electroweak bosons. Limits are also set on the invisible Higgs width and a UV complete model.

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