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Search for new physics in lepton + MET final states

A search for new physics in final states with an electron or a muon and a low mass neutrino is presented based on the full 2012 data set at $\sqrt{s}=8\text{TeV}$. The analysis searches for an excess of events above the SM expectation in the $l+\text{MET}$ transverse mass spectrum. The results are interpreted in several different models, such as a new, heavy SM-like boson W' with and without interference with the SM W -boson, split UED and a four-fermion contact interaction as a sign of fermion compositeness. We also present a model independent cross section limit.

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