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Searches for new heavy resonances and large extra dimensions at CMS

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Additional heavy leptonic resonances (e.g. Z' , W') are predicted by a number of new physics models. Models with extra dimensions include not only the possibility for resonant signatures like predicted in RS scenarios, but might also result in a non-resonant enhancement of high mass lepton pairs as suggested by the ADD model of large extra dimensions.

CMS has performed searches for both resonant and non-resonant signatures of new physics in the lepton mass spectra. Most of the presented results are based on the full 2012 dataset of proton-proton collisions at a center of mass energy of 8 TeV. No evidence for event contributions beyond the standard model is observed, and the results are interpreted in terms of limits on model parameters in the considered new physics scenarios.

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