## Rencontres de Moriond EW 2014



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## Search for a heavy Higgs boson in the H->ZZ->2l2nu channel in pp collisions at sqrt(s) = 7 and 8 TeV at CMS experiment.

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A search for a heavy Higgs boson in the H->ZZ->2l2nu decay channel, where l=e or  $\mu$ , in pp collisions at a center-of-mass energy of both 7 and 8 TeV is presented. The search is optimised separately for the vector boson fusion and the gluon fusion production processes. No significant excess is observed above the background expectation. A re-interpretation of the results as a search for an electroweak singlet extension of the Standard Model is also presented.

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