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Searches for a high-mass Higgs boson in the ZZ and WW decay channels with the CMS detector

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Searches for a high-mass Higgs boson decaying into WW and ZZ channels has been carried out using data collected at centre-of-mass energies of 7 and 8 TeV at the LHC collider, corresponding to integrated luminosities of 5/fb and 20/fb, respectively. Many different final states have been considered and upper limits on the Higgs boson production cross section have been derived. The results are interpreted in a BSM model containing an additional electroweak singlet.

Summary

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