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## **Measurements of Higgs boson production and properties in the ZZ decay channel with both Z's decaying into electrons or muons using the CMS detector**

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A search for the Higgs boson has been carried out in the Higgs to ZZ to four leptons decay mode with the CMS detector at the LHC collider, where leptons are electrons or muons. The analysis is based on pp collision data collected at centre-of-mass energies of 7 and 8 TeV, corresponding to integrated luminosities of 5/fb and 20/fb, respectively. The analysis strategy and measurements of the mass, coupling, and spin-parity are reported.

### **Summary**

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**Session Classification** : BEH Physics

**Track Classification** : Brout-Englert-Higgs physics