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Search For Dark Matter produced in association with a Higgs Boson in the four lepton final state at 13 TeV with the CMS experiment

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A search for dark matter (DM) particles produced in association with a Higgs Boson, where the Higgs boson decays to pair of Z bosons and each Z decays to two leptons (e, μ) is presented. The experimental signature includes a Higgs boson produced together with large missing transverse energy. The study is performed using data collected in proton-proton collisions during 2016 with an integrated luminosity of 35.9 fb^{-1} at a center of mass energy of 13 TeV with the CMS experiment. Two simplified benchmark models are used for interpreting the results.

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