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Analysis strategy for the Higgs boson search in the four lepton nal state in CMS

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The current status and future prospects for SM Higgs boson searches in the $H \rightarrow ZZ(*) \rightarrow 4e$ ($e = e, \mu$) channel with the CMS detector are presented. The whole analysis strategy for rejecting the backgrounds while keeping very high signal efficiencies is discussed, with a particular emphasis on the usage of data-driven techniques and on the estimation of systematic uncertainties. Preliminary results from analyses on the real data collected so far are also shown.

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