

Abstract Submitted
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Bounds on the Higgs boson lifetime with $H \rightarrow 4l$ events ULASCAN
SARICA, Johns Hopkins University, CMS COLLABORATION — Constraints on the width of the Higgs boson, or equivalently its lifetime, are set using the $H \rightarrow ZZ \rightarrow 4l$ decay channel and the full dataset recorded by the CMS experiment during the LHC Run 1, corresponding to an integrated luminosity of 5.1 fb⁻¹ at a center-of-mass energy of 7 TeV and up to 19.7 fb⁻¹ at 8 TeV. The upper bound on the width is set using the off-shell production technique.

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