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Observation of the VBF production in the $H \rightarrow WW^* \rightarrow e\nu\mu\nu$ decay channel with the ATLAS experiment

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An analysis of vector-boson-fusion production of Higgs bosons in the $H \rightarrow WW^* \rightarrow e\nu\mu\nu$ decay channel is presented. The proton-proton collision data used in this result were produced at the LHC with a center-of-mass energy of 13 TeV and recorded by the ATLAS detector between 2015 and 2018, corresponding to the full Run 2 integrated luminosity of 139 fb⁻¹. Novel multivariate techniques are employed to isolate the signal from background processes. The analysis methodologies and the results will be presented.

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