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Measuring the WW cross section using the Random Forest MVA THOTH GUNTER, MICHAEL SCHMITT, Northwestern Univ — The pp \rightarrow WW process is an electro weak process that has historically shown discrepancies between predicted and measured cross section values, far greater than the other electro weak processes. Standard WW cross section measurements rely on strict jet multiplicity cuts, introducing additional hard to calculate log correction factors. We present the measurement of the WW \rightarrow 2l2nu cross section using the Random Forest MVA technique using 13 TeV proton-proton collision at the LHC recorded by the CMS detector. With this technique we measure the pp \rightarrow WW \rightarrow 2l2nu cross section.

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