

Figure 1: Feynman diagram for Higgs boson decaying into two W bosons, without phantoms or freezing.

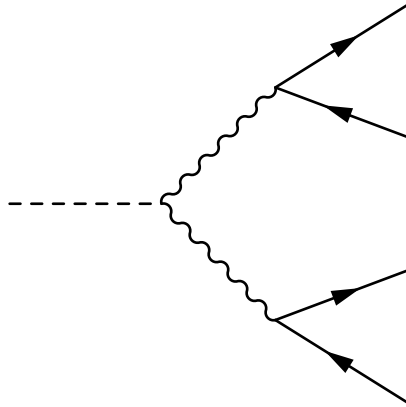


Figure 2: Feynman diagram for Higgs decay with phantoms and freezing to form a skeleton.

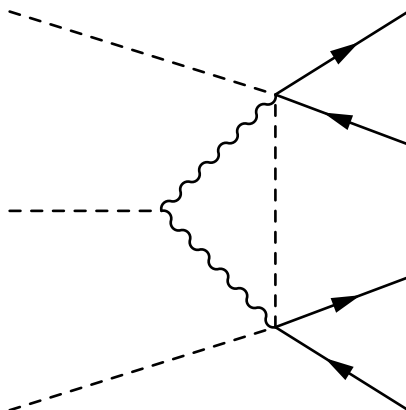


Figure 3: Feynman diagram for Higgs decay into a bottom quark pair with dashes for pulling and freezing to form a skeleton.

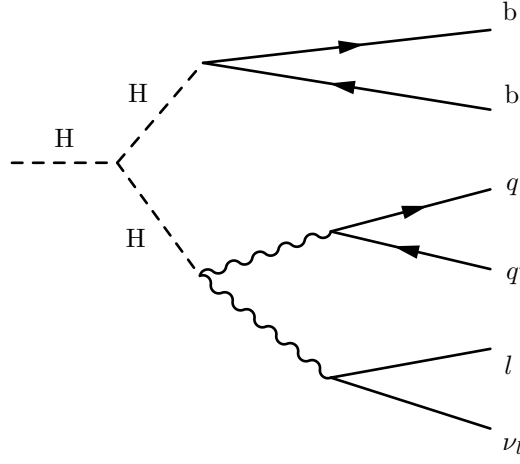


Figure 4: Feynman diagram for Higgs pair decay to a bottom quark pair and W boson pair in the semi-leptonic final state.

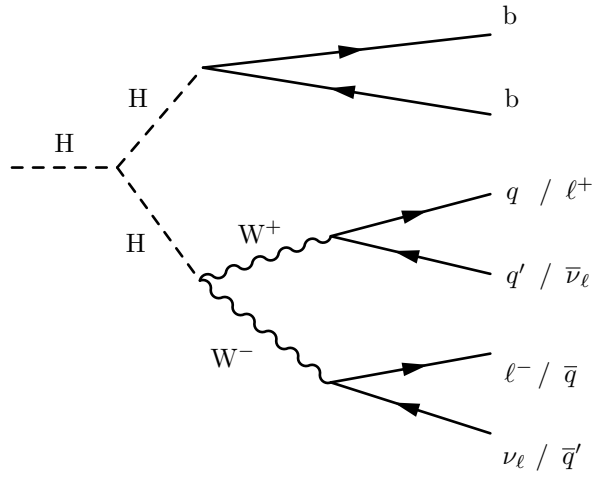


Figure 5: Feynman diagram for Higgs pair decay to a bottom quark pair and W boson pair in the semi-leptonic final state.

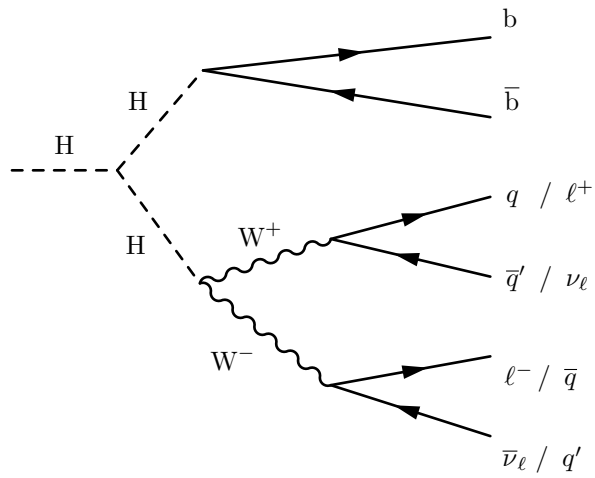


Figure 6: Feynman diagram for Higgs pair decay to a bottom quark pair and W boson pair in the semi-leptonic final state.

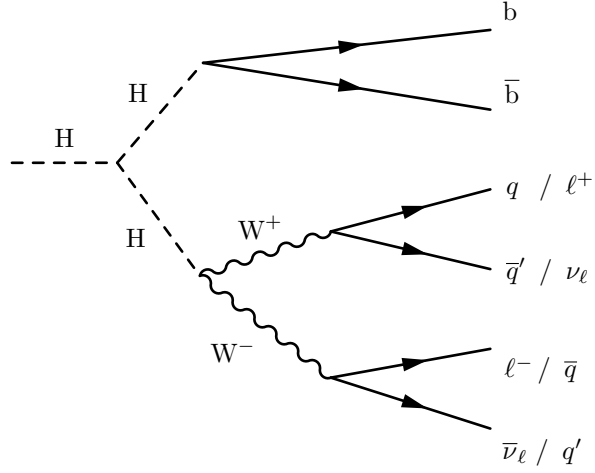


Figure 7: Feynman diagram for Higgs pair decay to a bottom quark pair and W boson pair in the semi-leptonic final state.

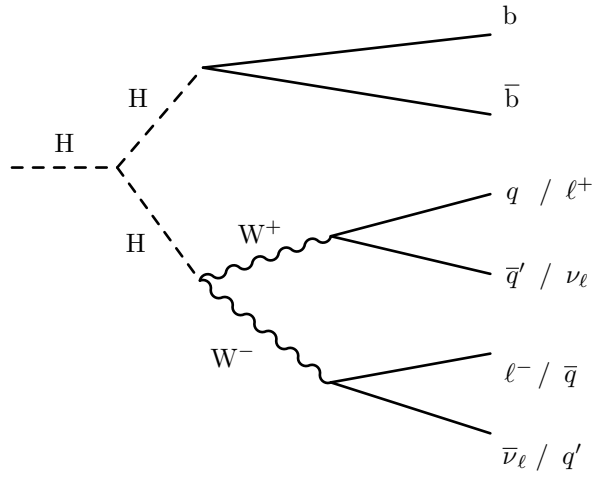


Figure 8: Feynman diagram for Higgs pair decay to a bottom quark pair and W boson pair in the semi-leptonic final state.

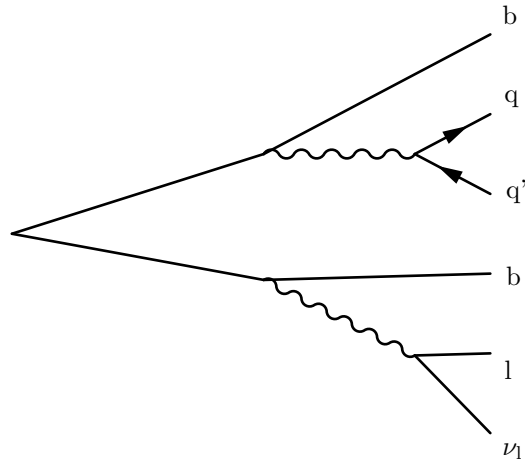


Figure 9: Feynman diagram for a top quark pair, both decaying into a bottom quark and W boson, with one W boson in the hadronic final state and one W boson in the semi-leptonic final state.

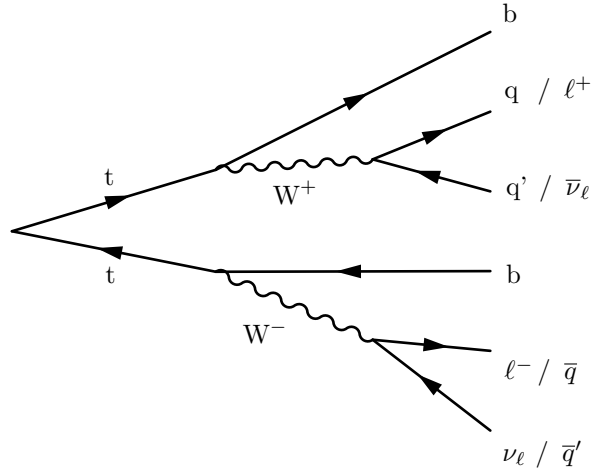


Figure 10: Feynman diagram for a top quark pair, both decaying into a bottom quark and W boson, with one W boson in the hadronic final state and one W boson in the semi-leptonic final state.

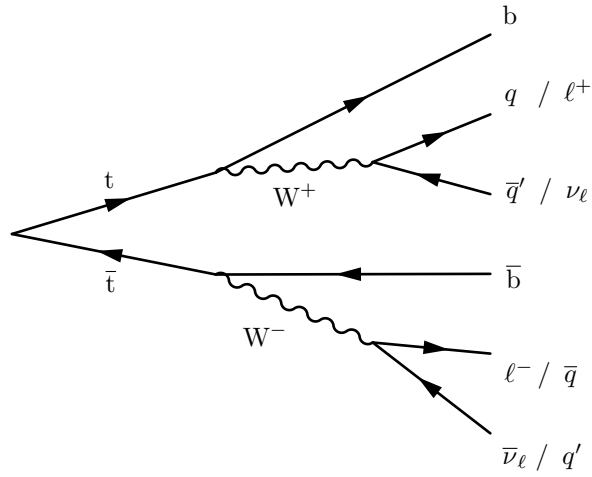


Figure 11: Feynman diagram for a top quark pair, both decaying into a bottom quark and W boson, with one W boson in the hadronic final state and one W boson in the semi-leptonic final state.

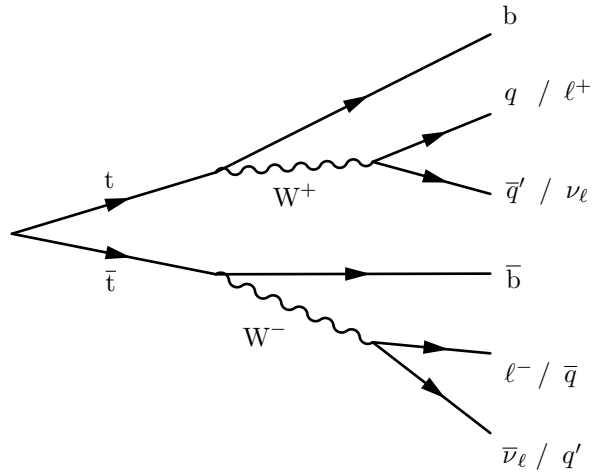


Figure 12: Feynman diagram for a top quark pair, both decaying into a bottom quark and W boson, with one W boson in the hadronic final state and one W boson in the semi-leptonic final state.

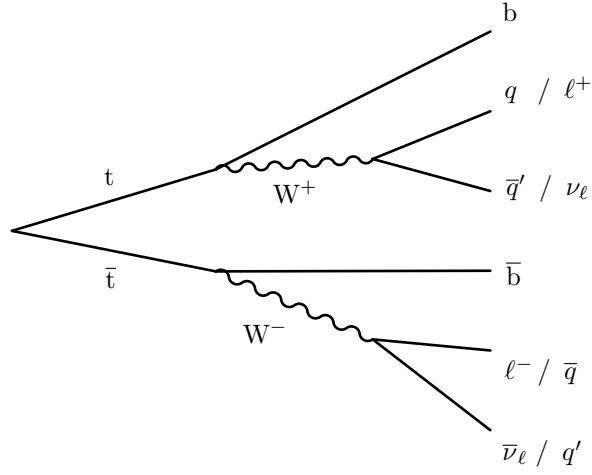


Figure 13: Feynman diagram for a top quark pair, both decaying into a bottom quark and W boson, with one W boson in the hadronic final state and one W boson in the semi-leptonic final state.

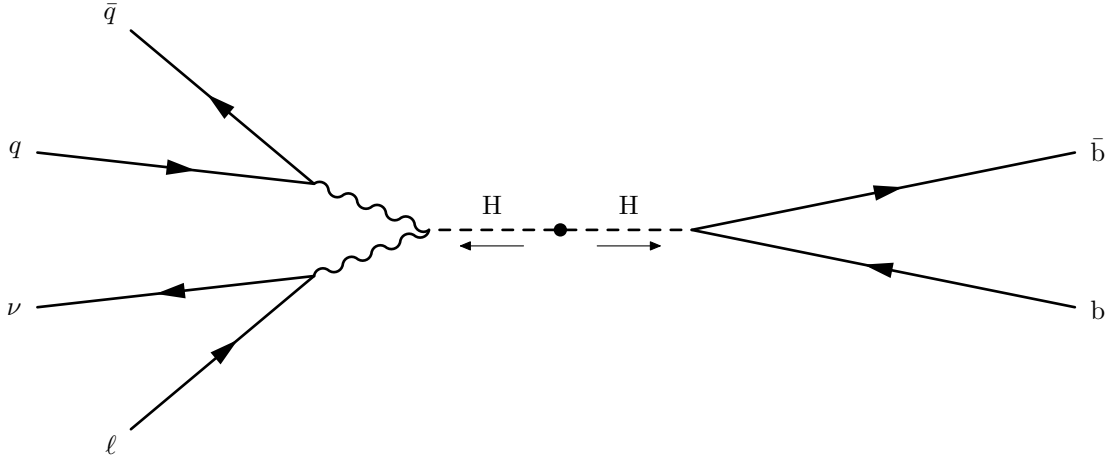


Figure 14: Topology for a boosted Higgs boson pair, produced with the two Higgs bosons back to back.

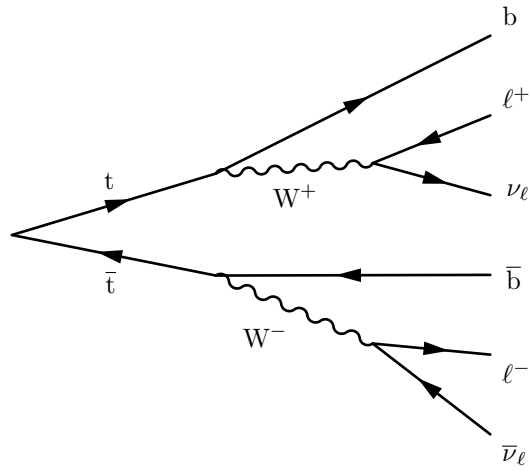


Figure 15: Feynman diagram for a top quark pair for thesis.