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Anomalous Higgs couplings in $e-e^+ \rightarrow ZHH$.

One of the main processes to study the Higgs self-coupling, HHH is $e+e^- \rightarrow ZHH$. There had been studies on how precisely this coupling can be determined at ILC through this process. This process is also dictated by the couplings of the Higgs boson with the gauge boson, especially ZZH coupling. Presence of anomalous ZZH , $Z\gamma H$, and $ZZHH$ couplings, may change the process on HHH coupling. Here, we investigate the effect of anomalous couplings on this process, considering a model independent effective Lagrangian approach. It is noticed that the quartic couplings have very small effect, while the effect of ZZH coupling be considerable.

Summary

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