Contribution ID: **44** Type: **Offline - Flash talk contributions**

Higgs Boson Self-Coupling vs. CM Energy at the ILC

The Higgs boson self-coupling is accessible in the double Higgstrahlung process $e^+e^- \to ZHH$ and the double WW fusion process $e^+e^- \to \nu\bar{\nu}HH$. Present ILC studies typically evaluate sensitivity to this coupling at center-of-mass energies of $\sqrt{s} = 500$ GeV and $\sqrt{s} = 1000$ GeV, two well-established ILC operating points. In this study we investigate the ILC sensitivity to the self-coupling at $\sqrt{s}$ from turnon threshold to above 1000 GeV.

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Session Classification: EF01+02+03+04+07

Track Classification: Session EF01+02+03+04+07: Higgs, EWK, BSM Higgs