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Precision Higgs Physics at the International Linear Collider

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Summary

The precision study of the 125 GeV Higgs boson offers a new window into the search for new physics beyond the Standard Model. To confront the predictions of models with new interactions, it is important that the experimental program be designed to achieve 1% precision over the full spectrum of Higgs boson couplings, with minimal model-dependence in the analysis and with tight control of systematic errors. This talk will explain how a precision Higgs program with these capabilities can be achieved at the proposed International Linear Collider. We will compare the capabilities of the ILC to those of the high-luminosity LHC and to those of other e+e- Higgs factory proposals.

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