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Higgs physics with ILC

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With technically mature design and well understood physics program, ILC is a realistic option for realization of a future Higgs factory. Energy staged data collection, employment of beam polarization and capability to reach a TeV center-of-mass energy, enable unique sensitivity to New Physics's deviations from the Standard Model predictions, also in the Higgs sector. Coupling precisions of the order of 1% and better are necessary to pin down a concrete New Physics's model. Measurement of the Higgs self-coupling as a shaping parameter of the Higgs potential will benefit from the accessibility of high-energy scales (500 GeV and above). Clear environment of $e+e-$ collisions, together with the rising cross-sections of the processes of interest with increasing center-of-mass energy, enable CP properties of the Higgs boson to be probed in numerous production and decay vertices. These and other ILC measurements will be highlighted in this talk.

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