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Type: **Parallel session**

Higgs Physics with ILC

Friday, December 1, 2023 9:00 AM (15 minutes)

Energy staged data collection, polarization of both beams and capability of a linear machine to reach TeV center-of-mass energies makes ILC ideal option for a future Higgs factory. It offers unique sensitivity to probe New Physics's deviations from the Standard Model predictions in the Higgs sector. Coupling precisions of the order of 1% and better are necessary to pin down a concrete New Physics's model, while the Higgs self-coupling can be determined with the relative precision of about 10%, also in cases when it deviates strongly from the Standard Model. CP properties of the Higgs boson can be probed with targeted precision, in numerous production and decay vertices, when the Higgs boson is coupled either to vector bosons or fermions. These and other ILC measurements will be highlighted in this talk.

You are

non-PhD student

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Track Classification: Future colliders and experiments (including projections)