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Physics and detectors at the ILC

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The Higgs boson discovered at the LHC has completed the standard model of particle physics. The LHC run2 with a center of mass energy of 13 TeV is now in progress, where properties of the Higgs boson and other particles are measured to be consistent with expectations of the standard model and no indication of new particles has been observed up to now. The International Linear Collider (ILC) is an electron positron linear collider with superconducting radio frequency technology, with center of mass energies from 250 GeV to 500 GeV, extendable to 1 TeV and beyond, and the realization of the ILC as an international project is officially under discussion in Japan. In this talk, physics and detectors at the ILC as well as the project status, including the recent ICFA statement of ILC 250 GeV as a Higgs boson factory, are presented.

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