

# The International Large Detector as Detector Concept for Linear and Circular e+e- Colliders

*Saturday 20 July 2024 17:19 (17 minutes)*

The International Large Detector (ILD) is a detector designed primarily for the International Linear Collider (ILC), a high-luminosity linear electron-positron collider with an initial center-of-mass energy of 250 GeV, extendable to 1 TeV or more. The ILD concept is based on particle flow for overall event reconstruction, which requires outstanding detector capabilities including superb tracking, very precise detection of secondary vertices and high-granularity calorimetry. ILD as a general-purpose detector can also serve as an excellent basis to compare the science reach and detector challenges for different collider options. ILD is actively exploring possible synergies with other Higgs/EW factory options, in particular FCC-ee. Possible updates of the detector concept by introducing new technologies are also being studied. In this talk we will report on the state of the ILD concept, report on recent results and discuss selected examples of studies of ILD at colliders other than ILC.

## Alternate track

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Yes

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