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Comparison of different detector concepts for a linear collider

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The International Linear Collider (ILC) is the next large project in high energy physics and currently being designed in a global effort. The main scientific goal is to complement the anticipated discoveries at the LHC by precision measurements at the TeV scale. This has challenging implications on the ILC detector design and performance requiring unprecedented precision in vertexing, tracking and calorimetry. Design studies on four detector concepts are ongoing which are complemented by international R&D programmes to develop detectors suitable for the conditions at the collider and matching the required performances. A survey will be given on the detector concepts and technologies under investigation together with the current status of the R&D programmes and future plans.

Author: MNICH, Joachim (DESY)

Presenter: MNICH, Joachim (DESY)

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