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The CLIC Detector Concept

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CLIC is a concept for a future linear collider that would provide e+e- collisions at a centre-of-mass energy of up to 3 TeV. The physics aims require a detector system with excellent jet energy and track momentum resolution, highly efficient flavour-tagging and lepton identification capabilities, full geometrical coverage extending to low polar angles and timing information in the order of nanoseconds to reject beam-induced background. To deal with those requirements, an extensive R&D programme is in place. The CLIC detector concept includes a low-mass all-silicon vertex and tracking detector system and fine-grained calorimeters designed for particle flow analysis techniques, surrounded by a 4 T solenoid magnet. This talk provides an overview of the requirements and design optimisations for the CLIC detector concept as well as recent R&D activities on detector technologies.

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